

## Building Product Systems

### FLOOR AND WALL COVERINGS APPLICATION

Surface preparation

Waterproofing

Ceramic tiles and natural stones laying

Wooden floors laying

Joint and expansion joint sealing



# 2023

### BUILDING PRODUCTS

Concrete repair

Accessory products

**Valid from:**

June, 2023

**Preliminary remark:**

Any changes will be published in our actual documentation which can be downloaded from our websites at

**[www.benfer.it](http://www.benfer.it)**

The changes will be incorporated into the next edition.

All technical data sheets and drawings in this book do not consider local building codes or legal requirements.

They shall be used as general reference for the product based on our current knowledge and experience.

Legally binding is only the latest data sheet or drawing from one of our subsidiaries inside their sales territory.

In any case of uncertainty please consult our technical department for further information.

For local contacts and current technical data sheets please visit **[www.benfer.it](http://www.benfer.it)**



DNV

# MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:  
CERT-09019-2001-AQ-BOL-SINCERT

Initial certification date:  
06 August 2001

Valid:  
28 July 2022 – 27 July 2025

This is to certify that the management system of  
**Laticrete Europe S.r.l. a socio unico**  
Via Paletti, s.n. - 41051 Castelnovo Rangone (MO) - Italy

has been found to conform to the Quality Management System standard:  
**ISO 9001:2015**

This certificate is valid for the following scope:

**Design and manufacture of adhesives and industrial sealants in powder and liquid form for the building sector. Sale under own trade mark of adhesives and industrial sealants in paste form and auxiliary products. Sale of powdered, paste and liquid products for floors, foundations and sealing**  
(IAF 12, 29)

Place and date:  
Vimercate (MB), 12 May 2022



For the issuing office:  
**DNV - Business Assurance**  
Via Energy Park, 14, - 20871 Vimercate (MB) - Italy





# OUR PURPOSE IS TO **IMPROVE THE BUILT WORLD** AND THE LIVES OF THOSE WHO BUILD IT.



**OVER 65 YEARS OF GLOBAL EXPERIENCE**



**100 COUNTRIES**



**1 MISSION**

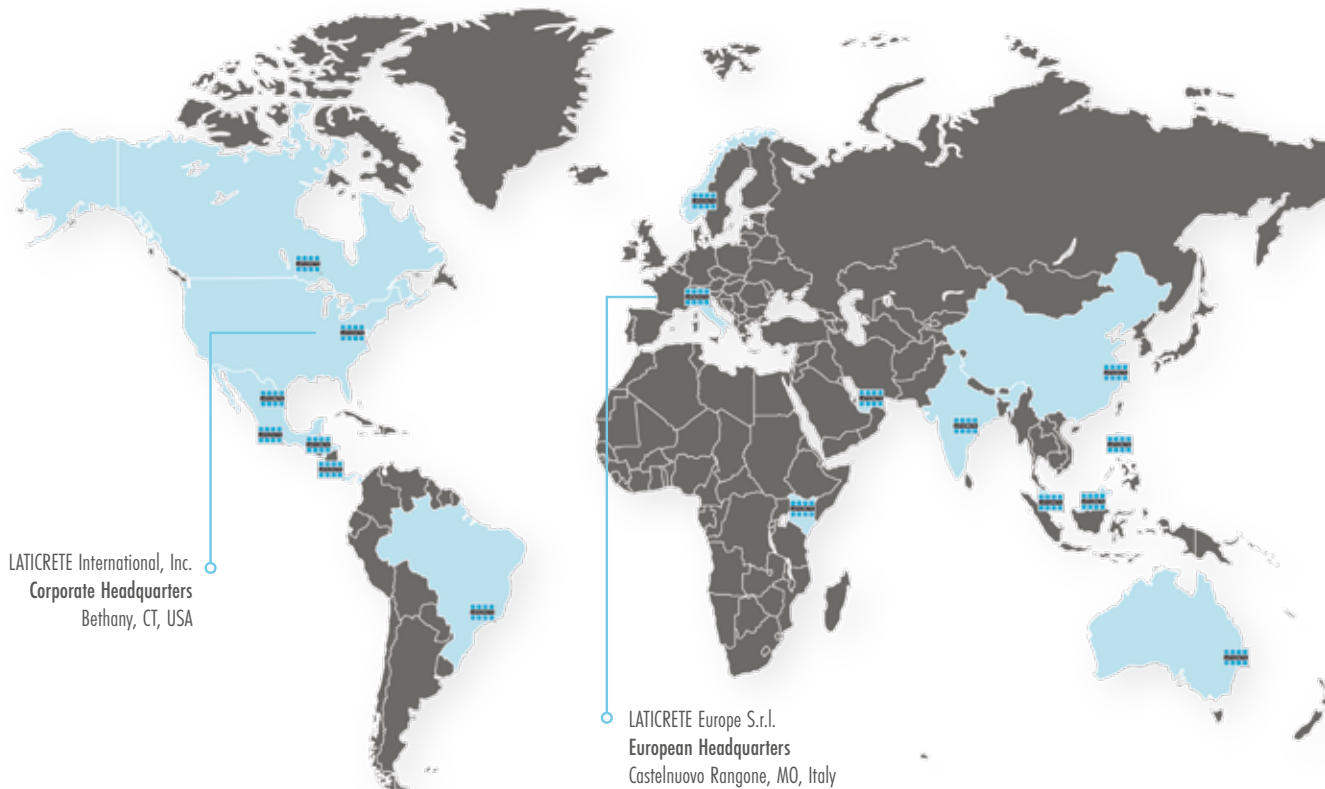
**3 GENERATIONS – 1 FAMILY**

**GREEN FLOORING AND FACADE MATERIALS**

**Dedicated to the construction industry for over 65 years.**

**100 countries, 3 generations, 1 mission.**

LATICRETE® is a family-owned, customer focused, world-wide manufacturer of green flooring and facade materials, used in residential, commercial and industrial applications. For over 65 years, LATICRETE has provided the technology, products and services for innovative, permanent installations and repairs for the construction market. Architecturally specified and professionally endorsed, LATICRETE offers a dedication to quality that results in globally proven solutions for virtually every flooring, waterproofing and facade application.



OUR PRODUCT SOLUTIONS FOR:

**INTERIOR | EXTERIOR | COMMERCIAL | RESIDENTIAL | INDUSTRIAL | MARINE**

SUBSTRATE PREPARATION, SCREEDS & MORTARS | SOUND CONTROL | UNCOUPLING & ANTI-FRACTURE | WATERPROOFING | ADHESIVES | GROUTS & SEALANTS





**Benfer®**  
A BRAND OF LATICRETE®



Founded by engineer Rinaldo Cocchi in 1965, Benfer S.r.l. in Castelnovo Rangone (MO) produces and sells high-quality building product systems for new construction as well as building restoration throughout Europe and the world.

The range of products includes screeds, self levelling, waterproofing products, adhesives, systems for the installation of tiles and seamless floors, products for the repair of concrete and for building renovation.

In 2019, through an acquisition, Benfer became part of the LATICRETE International, Inc. family, an American company with over 65 years of global experience in developing high performance construction materials and specializing in reliable system solutions that improve and innovate on traditional solutions.

With the integration of the two companies, the new synergy of the group and production capacity of the factory in Castelnovo (Mo) allows us to provide a unique offering for dealers, designers and tile installers who are looking for innovative, reliable products and system solutions. Our technical service team is readily available for assessment and planning of new or renovation projects.

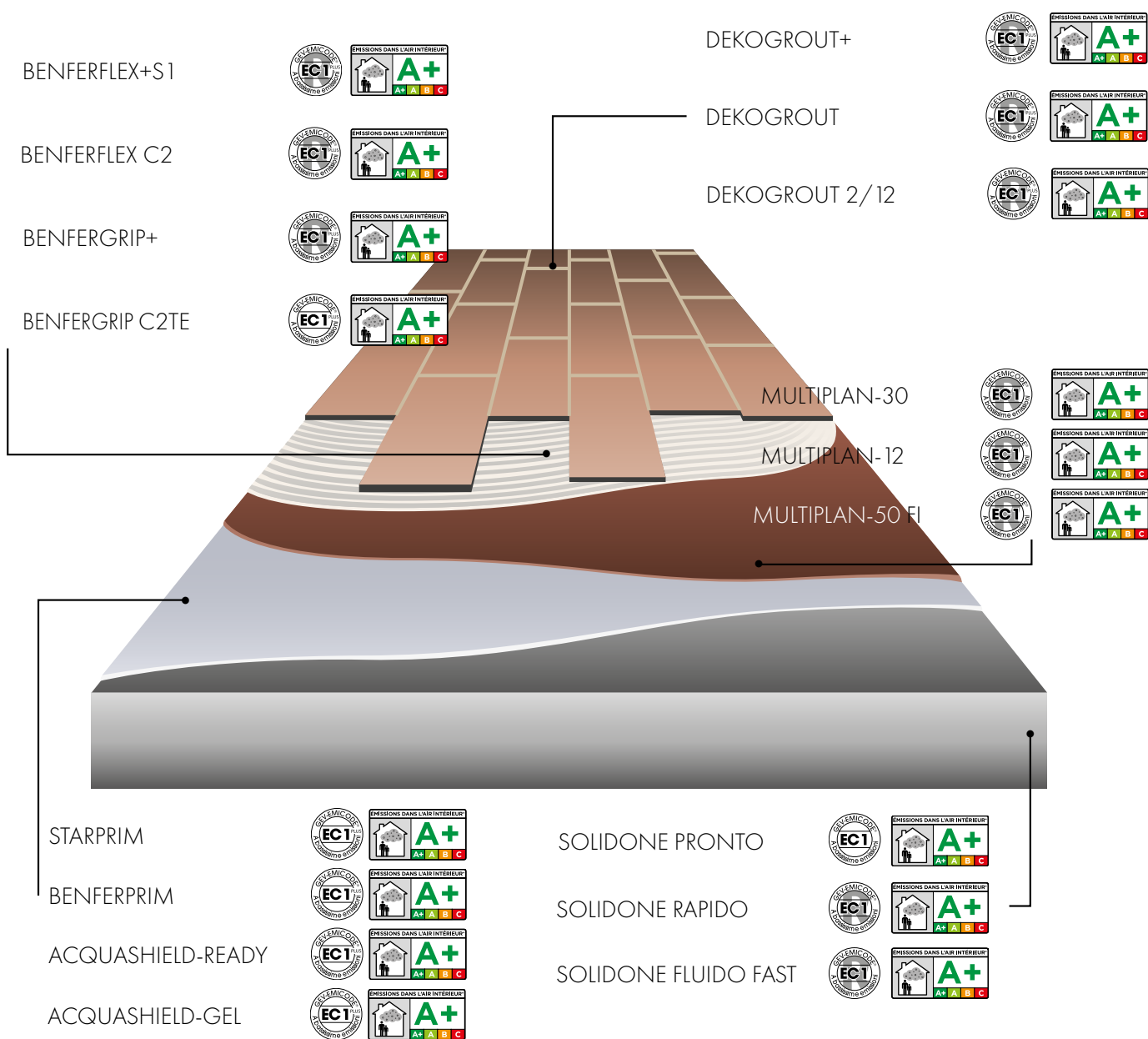
Obtaining advice, plans and budget quotations is fast and simple thanks to the professionalism of our technical and commercial experts and our streamlined procedure.

We also offer custom training courses targeted and tailored to customer needs, for individuals or groups, on-site or off-site.



BENFERFLEX+S1

# Our committment to a better life...



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Our group has always been respectful of human health. Since 1965 we have been directing our efforts to the development of safe chemical products.

That's why the family of products certified , "very low emission" of VOC, has steadily grown in number each year.

This means that it is truly possible to build your home solidly and safely, using products readily available on the market, at no added cost.

## **BENFER products which meet the LEED criteria**

The LEED certification was developed and introduced in the United States in 1999 by US Green Building Council. The certification evaluates and certifies the environmental, social and economic sustainability of buildings. The method of certification provides for the attribution of a certain score to each building recognized on the basis of the verified conformity to several requirements and LEED credits.

Benfer products contribute to reach the LEED credits because they contain recycled or local materials. Benfer supports its customers in obtaining building certification according to these criteria by providing all necessary information in a clear manner. Product research and documentation is made easier for planners, architects and construction companies.

On the web site **[www.benfer.it](http://www.benfer.it)**, in every product sheet, you can find certificates and information about the environmental impact and **LEED**.



# Floor and wall coverings application



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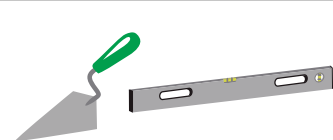
## SOLIDONE PRONTO

Ready to use mixture for fast drying screed (4 days\*) with controlled shrinkage



Pot life  $\geq 60$  min\*  
Light foot traffic after: 6 hours\*  
Consumption: 14-16 kg/m<sup>2</sup>/cm thickness  
EN 13813 CT C30 – F6 A1 fl

- Floating screed walkable in 6 hours\* and dry (humidity < 2%) in 4 days\*
- Certainty of drying time
- Simplification of construction site organization
- Applicable also for renovation of old ceramic floors
- Also for industrial environments subject to heavy or intense traffic
- Improved workability
- No shrinkage
- EC1: very low emission



Remark: Ecological, fast drying

Art. no./Colour

Package/Pallet

24-09520-0025-F/  
Grey

25 kg bag/60 bags pallet



A high resistance mixture of special cements, synthetic additives and selected aggregates for the preparation of sub-bases exempt from shrinkage classified according to EN 13813, such as CT C30 - F6 A1 fl. Thanks to its composition, mixed at the work site with water, it permits the combining of adherent and floating screed (also heated) up to 8 centimeters in depth, suited to receiving the laying of ceramic tiles after only 24\* hours and wooden and resilient floors after only 4\* days.

For interior and exteriors.

### Product Technical Data

Consistency:	Premixed powder
Color:	Grey
Storage and Duration :	12 months in the original closed package in a cool dry place
Inflammability:	No
Apparent mass volume:	1500 kg/m <sup>3</sup>
Mixture ratio:	1.7 Liters of water per 25 kg bag
Mixing time:	3-5 minutes
Mixture consistency:	Humid soil
Density of paste:	2100 kg/m <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Max thickness/min:	From 3 to 8 cm
Maximum grain size:	8 mm
Light practicability on dry supports:	Approximately 6 hours
Laying ceramic tiles:	24/36 hours* (subject to residual humidity check < 6%)
Laying marble and stable natural stone:	2/3 days* (subject to residual humidity check < 3%)
Laying wood and resilient:	4/7 days* (subject to residual humidity check < 2%)
Final hardening:	4/7 days*
Compression strength after 24 hours and 28 hours:	9 N/mm <sup>2</sup> , 30 N/mm <sup>2</sup>
Flexural strength after 24 hours and 28 hours:	3 N/mm <sup>2</sup> , 6 N/mm <sup>2</sup>
Temperature resistance:	From -30°C to +90°C,
*at +23°C and 50% of relative humidity	





# Fast drying screeds

■ Company with certified quality system **ISO 9001**

## SOLIDONE RAPIDO

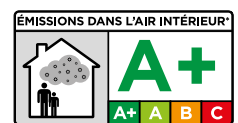
Rapid setting pre-blended mortar for fast drying screed (4 hours\*) with controlled shrinkage



- Dry (humidity < 2%), in 4 hours\*
- Walkable in 2 hours\*
- Thickness from 2 to 8 cm
- For fixed or floating screed (even heated)



Pot life  $\geq 30$  min\*  
Light foot traffic after:  
2 hours\*  
Consumption: 14-16 kg/m<sup>2</sup>/cm  
thickness  
EN13813 CT C60-F10-A1fl



Art. no./Colour

Package/Pallet

Remark: Ecologic, fast drying

24-01037-0025-21-F/  
Grey

25 kg bag/60 bags europallet



SOLIDONE RAPIDO is a mixture of special high resistance cements, synthetic additives and selected aggregates for the preparation of screed exempt from shrinkage, classified according to **EN13813 CT C60-F10 A1fl**.

Thanks to its composition, mixed at the work site with water, allows the construction of adherent and floating screed (even heated) up to 8 centimeters thick, suited to receive the laying of ceramic tiles after only 3 hours\* and of wooden and resilient floors after only 4 hours\*. For interior.

### Product Technical Data

Consistency:	Premixed powder
Classification according to:	EN13813 CT C60-F10-A1fl
Storage and Duration :	12 months in the original closed package in a cool dry place
Flammability:	No
Apparent mass volume:	1600 kg/m <sup>3</sup>
Mixture ratio:	1.6-1.65 liters of water per 25 kg bag
Mixing time:	3-5 minutes
Mixture consistency:	Humid soil
Mass volume of paste:	2100 kg/m <sup>3</sup>
Application temperature:	From + 5° C to + 35° C
Pot life of the mixture:	30 minutes*
Thickness:	From 2 to 8 cm
maximum grain size:	4 mm
Traversable on dry substrate:	Approximately 2 hours
Ceramic tiles laying:	After 3 hours* (subject to residual humidity check < 6%)
Marble and stable natural stone laying:	After 4 hours* (subject to residual humidity check < 3%)
Wood and resilient laying:	After 4 hours* (subject to residual humidity check < 2%)
Final hardening:	3 days*
Compression strength after 24 hours, 7 days, 28 days:	30 N/mm <sup>2</sup> , 40 N/mm <sup>2</sup> , 60 N/mm <sup>2</sup>
flexural strength after 24 hours, 7 days, 28 days:	6 N/mm <sup>2</sup> , 7 N/mm <sup>2</sup> , 10 N/mm <sup>2</sup>
Temperature resistance:	From -30°C to +90°C
*Data referred to a floating screed 4 cm thick at +23°C and 50% of relative humidity	

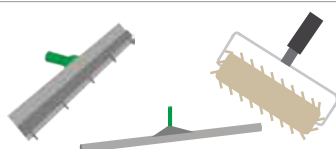
## SOLIDONE FLUIDO FAST

Self levelling - Rapid setting cement based mortar for screed with fluid consistency



Pot life: 45 min\*  
Light foot traffic after: 3 hours\*  
Consumption: 16-17 kg/m<sup>2</sup>/cm thickness  
EN 13813 CT C40 – F7 A1 fl

- Fluid cement based screed from 0.8 cm to 8 cm
- For floating screed, fluid
- Walkable in 3 hours\*
- Ready for tiles in 24 hours\*
- Thickness from 3 cm to 8 cm for heated screeds
- Easy to apply and cost saving thanks to its fluid consistency
- The long workability time (45 minutes\*), allows the application with or without pump
- Reinforcement mesh not necessary
- Can be worked with mixing machine, pump or cement mixer
- Internal use



Art. no/Colour

Package/Pallet

Remark: Ecological, cost reduced

24-01043-0025-F/  
Grey

25 kg bag/60 bags europallet



SOLIDONE FLUIDO FAST is a mixture of special cements, synthetic additives and selected aggregates for the preparation of fast drying screed exempt from shrinkage, classified according to **EN 13813**, such as **CT C25 – F5 A1 fl**.

Thanks to its composition, mixed at the work site with water, it becomes a fluid mortar and allows the fast and safe construction of floating screed (even heated) from 0.8 to 8 centimeters thick, with little manpower.

Important characteristics are the absence of crackles and fissures even when applied in different thickness (on heating systems).

Very useful as self-levelling (min.8 mm), because very cheap.

### Product Technical Data

Consistency:	Premixed powder
Colour:	Grey
Storage and Duration :	12 months in the original closed package in a cool dry place
Danger of harm:	Possible irritation of the eyes and skin upon contact
Flammability:	No
Apparent mass volume:	1500 kg/m <sup>3</sup>
Mixture ratio:	4.25 liters of water per 25 kg bag
Mixing time:	3-5 min
Mixture consistency:	Fluid mortar
Mass volume of paste:	1900 kg/m <sup>3</sup>
Application temperature:	From + 5° C to + 35° C
Thickness:	From 0.8 to 8 cm
Maximum grain size:	4 mm
Traversable on dry substrate:	Approximately 3 hours*
Ceramic tiles laying:	After 24 hours* (subject to residual humidity check < 6%)
Marble and stable natural stone laying:	After 3 days* (subject to residual humidity check < 3%)
Wood and resilient laying:	After 7 days* (subject to residual humidity check < 2%)
Final hardening:	14 days*
Compression strength after 24 hours, 7 days, 28 days:	15 N/mm <sup>2</sup> , 30 N/mm <sup>2</sup> , 40 N/mm <sup>2</sup>
flexural strength after 24 hours, 7 days, 28 days:	4 N/mm <sup>2</sup> , 5 N/mm <sup>2</sup> , 7 N/mm <sup>2</sup>
Temperature resistance:	From -30°C to +90°C

\*at 23°C and 50% relative humidity, Data referred to a floating screed 5-6 cm thick, ventilated area.







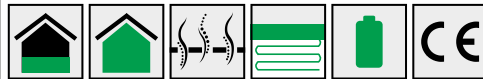
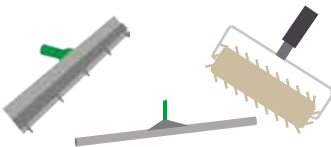
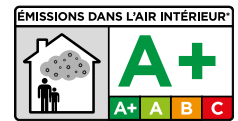
## SOLIDONE FLUIDO

Self-levelling - cement based mortar for screed with fluid consistency



Pot life: 60 min\*  
Foot traffic after:  
24 hours\*  
Consumption: 16-17 kg/m<sup>2</sup>/cm  
thickness  
CT C30 – F5 A1 fl

- Fluid cement based screed from 0.8 cm to 8 cm of thickness adherent or floating
- For floating screed, fluid
- For every kind of floor
- Walkable in 24 hours\*
- Ready for tiles in 4 days\*
- For floating screeds( even heated screeds)
- Easy to apply and cost saving thanks to its fluid consistency
- The long workability time (60 minutes\*), allows the application without pump
- Reinforcement mesh not necessary
- Can be worked with mixing machine, pump or cement mixer
- Internal use



Art. no/Colour

Package/Pallet

Remark: Ecological, cost reduced

24-01039-0025-F/  
Grey

25 kg bag/60 bags europallet

SOLIDONE FLUIDO is a mixture of special cements, synthetic additives and selected aggregates for the preparation of screed exempt from shrinkage, classified according to **EN 13813**, such as **CT C30 – F5 A1 fl**.

Thanks to its composition, mixed at the work site with water, it becomes a fluid mortar and allows the fast and safe construction of floating screed (even heated) from 0.8 to 8 centimeters thickness, with little manpower. Important characteristics are the absence of fissures even when applied in varying thickness (on heating systems).

### Product Technical Data

Consistency:	Premixed powder
Colour:	Grey
Storage and Duration :	12 months in the original closed package in a cool dry place
Flammability:	No
Apparent mass volume:	1500 kg/m <sup>3</sup>
Mixture ratio:	3.75-4.00 liters of water per 25 kg bag
Mixing time:	3-5 min
Mixture consistency:	Very fluid mortar
Mass volume of paste:	1900 kg/m <sup>3</sup>
Application temperature:	From + 5° C to + 35° C
Pot life:	60 minutes
Thickness:	From 0.8 cm to 8 cm
Maximum grain size:	4 mm
Traversable on dry substrate:	Approximately 24 hours
Ceramic tiles laying:	After 4 days (subject to residual humidity check < 6%)
Marble and stable natural stone laying:	After 8-10 days (subject to residual humidity check < 3%)
Wood and resilient laying:	After 20 days* (subject to residual humidity check < 2%)
Final hardening:	28 days
Compression strength after 24 hours, 7 days, 28 days:	4 N/mm <sup>2</sup> , 10 N/mm <sup>2</sup> , 30 N/mm <sup>2</sup>
Flexural strength after 24 hours, 7 days, 28 days:	2 N/mm <sup>2</sup> , 3 N/mm <sup>2</sup> , 5 N/mm <sup>2</sup>
Temperature resistance:	From -30°C to +90°C

\*at 23°C and 50% relative humidity, Data referred to a floating screed 5-6 cm thick , ventilated area.





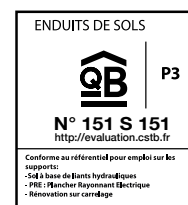
**MULTIPLAN-30**

## Self-levelling underlayment up to 30 mm



Pot life: 20 min\*  
 Light foot traffic after:  
 4 hours\*  
 Consumption: 1.65 kg/m<sup>2</sup>/mm  
 thickness  
 EN 13813 CT-C30-F7 A1 fl

- For interior, fast curing, traversable after 4 hours
- Polymer modified
- Suitable for heated screeds
- Easy to process
- Pumpable
- For layers 1 - 30 mm thick
- Meets class RWFC-550 according to DIN EN 13892-7
- EC1: very low emission



Art. no/Colour

Package/Pallet

Remark: Water resistant, fast  
 setting, Ecological

000012054/Grey

25 kg bag/42 bags europallet



MULTIPLAN-30 is used for smoothing and levelling in layers of 1 – 30 mm thick. Suitable surfaces are floors made of concrete in accordance to German Industrial Standard DIN 1045, heated and unheated cement screeds according to DIN 18560, old hardened tile surfaces and rapid hardening cement screeds (for example SOLIDONE PRONTO). The already planned surface, it is not suitable as a wearing surface without additional coating.

**Product Technical Data**

Basis:	Premixed powder
Colour:	Grey
Storage and Duration :	12 months in the original closed package in a cool dry place
Flammability:	No
Apparent mass volume:	1300 kg/m <sup>3</sup>
Mixture ratio:	5.5 - 6.00 liters of water per 25 kg bag
Mixing time:	3-5 min
Mixture consistency:	Fluid mortar
Mass volume of paste:	1800 kg/m <sup>3</sup>
Application temperature:	From + 5° C to + 35° C
Pot life:	20 minutes*
Thickness:	From 1 mm to 30 mm
Maximum grain size:	0.5 mm
Traversable:	After approx. 4 hour
Ceramic tiles laying:	After 24 hours (subject to residual humidity check < 4%)
Marble and stable natural stone laying:	After 48 hours (subject to residual humidity check < 3%)
Wood and resilient laying:	After 3 days* (subject to residual humidity check < 2%)
Final hardening:	7 days
Compression strength after 24 hours, 7 days, 28 days:	14 N/mm <sup>2</sup> , 28 N/mm <sup>2</sup> , 30 N/mm <sup>2</sup>
Flexural strength after 24 hours, 7 days, 28 days:	3 N/mm <sup>2</sup> , 7 N/mm <sup>2</sup> , 7 N/mm <sup>2</sup>
Temperature resistance:	From -30°C to +90°C
*at 23°C and 50% relative humidity	

## MULTIPLAN-50 FI

### Fibre reinforced rapid setting cement based self-levelling compound



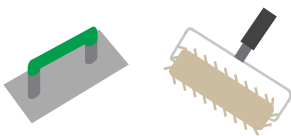
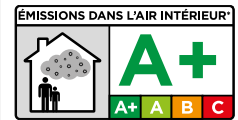
- Fibre reinforced, suitable on plywood overlay
- Suitable on underfloor heating
- Fast curing, traversable after 2-3 hours\*
- Flexible, polymer modified
- Low emission
- Easy to process, can be pump applied
- For layers 3-50 mm thick
- For interior application only



Pot life: 30 min\*  
Foot traffic after: 2-3 hours\*  
Consumption: 1.65 kg/m<sup>2</sup>/mm thickness  
EN 13813 CT C30-F7 A1 fl

MULTIPLAN-50 FI is used for smoothing and levelling in layers of 3-50 mm thick. Suitable substrates are concrete floors in accordance with DIN 1045, heated and unheated cement-based screeds and non in accordance with DIN 18560, old, well bonded tile finishes and rapid cement-based screeds.

MULTIPLAN-50 FI is also suitable for use on plywood overlay, on chipboard and on old wooden floorboards as well.



Art. no/Colour

Package/Pallet

Remark: Ecological, fast, cost reduced

000012504/Grey

20 kg bag/56 bags europallet

### Product Technical Data

Basis:	Premixed in powder
Colour:	Grey
Storage and duration :	12 months in the original closed package in a cool dry place
Flammability:	No
Apparent mass volume:	1300 kg/m <sup>3</sup>
Mixture ratio:	4.4 – 4.8 liters of water for 20 kg bag
Mixing time:	3-5 min
Mixture consistency:	Fluid mortar
Mass volume of paste:	1800 kg/m <sup>3</sup>
Application temperature:	From + 5° C to + 35° C
Pot life:	30 minutes
Thickness of relative humidity:	From 3 mm to 50 mm
Maximum grain size of relative humidity:	0.5 mm
Traversable:	After approx. 2-3 hour
Ceramic tiles laying:	After 24 hours (subject to residual humidity check < 4%)
Marble and stable natural stone laying:	After 48 hours (subject to residual humidity check < 3%)
Wood and resilient laying:	After 3 days (subject to residual humidity check < 2%)
Final hardening:	7 days
Compression strength after 24 hours, 7 days, 28 days:	14 N/mm <sup>2</sup> , 28 N/mm <sup>2</sup> , 30 N/mm <sup>2</sup>
flexural strength after 24 hours, 7 days, 28 days:	3 N/mm <sup>2</sup> , 7 N/mm <sup>2</sup> , 7 N/mm <sup>2</sup>
Temperature resistance:	From -30°C to +90°C
*Data references taken on floating screeds with thickness ≤ 5 cm at 23°C and 50% relative humidity	



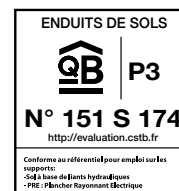
**MULTIPLAN-12**

Self-levelling smoothing compound up to 12 mm



Pot life: 20 min\*  
 Foot traffic after: 4 hours\*  
 Consumption: 1.65 kg/m<sup>2</sup>/mm  
 thickness  
 EN 13813 CT-C25-F4 A1 fl

- Polymer modified
- Self levelling
- For interior use
- Easy to use
- Rapid setting
- Suitable for heated screeds
- Pumpable
- For thicknesses from 1 to 12 mm



Art. no/Colour

Package/Pallet

Remark: Easy to use

000012053/Grey

25 kg bag/42 bags europallet



MULTIPLAN-12 is used in thicknesses from 1-12 mm for smoothing, repairing and levelling. Suitable substrates are concrete floors in accordance with DIN 1045, heated and unheated cement-based screeds non in accordance with DIN 18560, old, well bonded tile finishes and rapid cement-based screeds (e.g. SOLIDONE PRONTO). Suitable substrates that have been levelled with MULTIPLAN-12 can be covered with tiles, needle punched carpets, textile finishes, linoleum, PVC.

**Product Technical Data**

Basis:	Premixed in powder
Colour:	Grey
Storage and Duration :	12 months in the original closed package in a cool dry place
Flammability:	No
Apparent mass volume:	1300 kg/m <sup>3</sup>
Mixture ratio:	5.25 – 5.75 liters of water per 25 kg bag
Mixing time:	3-5 min
Mixture consistency:	Fluid mortar
Mass volume of paste:	1800 kg/m <sup>3</sup>
Application temperature:	From + 5° C to + 35° C
Pot life:	20 minutes*
Thickness:	From 1 mm to 12 mm
Maximum grain size:	0.5 mm
Traversable:	After approx. 4 hour
Ceramic tiles laying:	After 24 hours (subject to residual humidity check < 4%)
Marble and stable natural stone laying:	After 48 hours (subject to residual humidity check < 3%)
Wood and resilient laying:	After 3 days* (subject to residual humidity check < 2%)
Final hardening:	7 days
Compression strength after 24 hours, 7 days, 28 days:	3 N/mm <sup>2</sup> , 16 N/mm <sup>2</sup> , 25 N/mm <sup>2</sup>
Flexural strength after 24 hours, 7 days, 28 days:	1 N/mm <sup>2</sup> , 3 N/mm <sup>2</sup> , 4 N/mm <sup>2</sup>
Temperature resistance:	From -30°C to +90°C

\*at 23°C and 50% relative humidity



# Smoothing compounds

■ Company with certified quality system **ISO 9001**

## TRIOTECH-30

Sag resistant compound for walls and floors

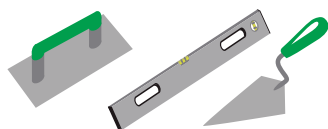


Pot life: 30 min\*  
Light foot traffic after: 3 hours\*  
Consumption: 1.5 kg/m<sup>2</sup>/mm thickness

- For interior and exterior applications, even beneath waterproofing in swimming pool, tanks and exterior areas
- Low tension
- Rapid setting
- For walls, ceilings and floors
- For thicknesses from 2 to 30 mm

Classification according to EN 13813: CT C25 – F4 A1 fl

Classification according to EN 1504-3: R2



Art. no./Colour

Package/Pallet

Remark: rapid setting, thickness ≤ 30 mm

000012061 / Grey

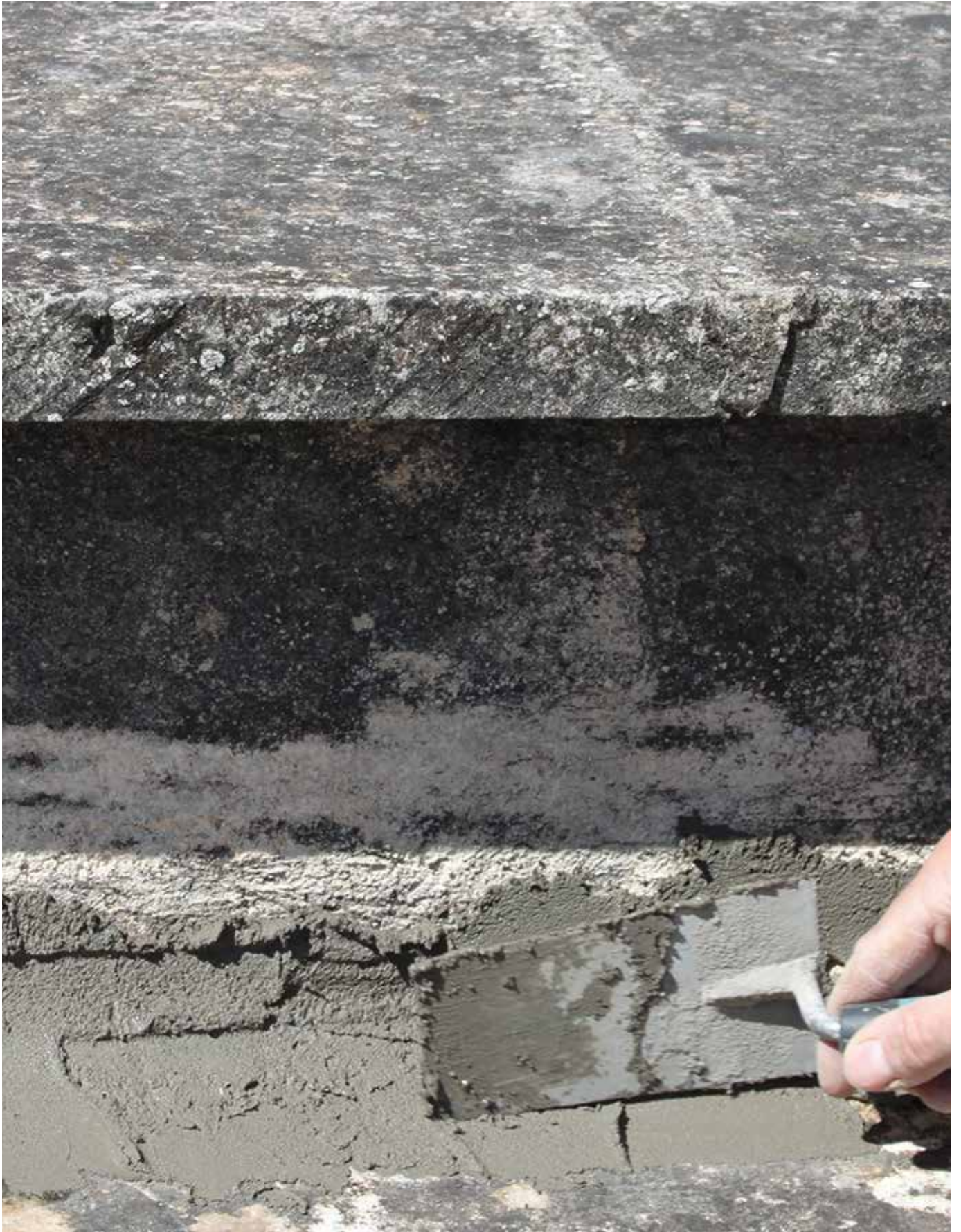
25 kg bag/48 bags europallet



TRIOTECH-30 is a polymer modified, cement based levelling mortar used to create even substrates for subsequent applications of waterproofing or tiling products. For interior and exterior applications to level and smooth uneven mineral-based walls, ceilings and floors areas that are to be waterproofed or clad with tiles. Also for use beneath waterproofing in swimming pool tanks and exterior areas.

## Product Technical Data

Basis:	Premixed powder
Colour:	Grey
Storage and Duration :	12 months in the original closed package in a cool dry place
Flammability:	No
Apparent mass volume:	1200 kg/m <sup>3</sup>
Mixture ratio:	4.75-5 liters of water per 25 kg bag
Mixing time:	3-5 min
Mixture consistency:	Thixotropic mortar
Mass volume of paste:	2000 kg/m <sup>3</sup>
Application temperature:	From + 5° C to + 35° C
maximum grain size:	0.5 mm
Ceramic tiles laying:	After 4 hours
Marble and stable natural stone laying:	After 6 hours
Wood and resilient laying:	After 6 hours
Final hardening:	7 days
Resistance to compression (EN 12190):	≥ 15 MPa
Presence chloride ions (EN1015-17):	≤ 0.05%
Binding of adhesion (EN1542):	≥ 0.8 MPa
Shrinkage or expansion (EN12617-4):	≥ 0.8 MPa
Capillary absorption (EN13057):	≤ 0.5 Kg/m <sup>2</sup> h
Thermal compatibility part 1 (EN13687-1) freeze-thaw:	≥ 0.8 MPa
Thermal compatibility part 2 (EN13687-2) storm:	≥ 0.8 MPa
Thermal compatibility part 4 (EN13687-4) dry cycles:	≥ 0.8 MPa
Resistance to temperature:	From -30° C to + 90° C
* at 23°C and 50% relative humidity	





# Two component waterproofing cementitious coatings

■ Company with certified quality system **ISO 9001**

## ACQUASHIELD-2KF

Flexible two component polymer-modified waterproofing cementitious coating



Pot life: 60 min at +23°C/  
20 min at 35°C  
Light foot traffic after:  
24 hours\*  
Consumption: 3.5-4.5 kg/m<sup>2</sup>  
(depending on the stress level)

- Crack bridging > 2.60 mm
- Easy to use - can be brush, spray, roller or trowel applied
- Vapour permeable
- Waterproof - resistant to 5 bar (positive side water pressure)
- Can be tiled or left uncoated\*
- UV, weather and freeze-thaw resistant
- Bonds well to damp substrates without priming
- Ecological
- Conforms to EN 14891 CM P

\* excluding swimming pools and tanks



ACQUASHIELD-2KF is a flexible elastomeric, 2-comp. polymer modified coating that waterproofs and protects concrete, masonry, brick and some natural stone substrates with crack-bridging properties. ACQUASHIELD-2KF has excellent adhesion characteristics and provides a seamless system which can be left as the finished surface\*, or can be top-coated with tiles, pavers, paint, or other coatings.  
\* excluding swimming pools and tanks

Art. no/Colour	Package/Pallet
000012021/Grey ACQUASHIELD-2KF	25 kg bag/40 bags europallet
000012022/White ACQUASHIELD-2KF	25 kg bag/40 bags europallet
204282000 ACQUASHIELD-2KF Comp.B	10 kg bucket/40 buckets europallet
35 kg Set 000012021 <b>25 kg Comp.A</b> Grey + 204282000 <b>10 kg Comp.B</b>	35 kg Set
7 kg Set 204281104 <b>5 kg Comp.A</b> + 204281004 <b>2 kg Comp.B</b>	7 kg Set





## Product Technical Data

Basis:	Premixed powder (Comp.A) liquid polymer (Comp.B)
Colour:	White and Grey (Comp.A) - white (Comp.B)
Conservation:	12 months in the original closed package in a cool dry place
Flammability:	No
Mixture ratio:	2.5 : 1 part
Mixing time:	2 - 3 min. (drilling machine min. 300 - 500 r/min)
Consistency :	Thixotropic mortar
Apparent mass volume:	1600 kg/m <sup>3</sup>
Application temperature:	From + 5° C to + 35° C
Pot life:	Approx. 60 min. at + 23° C, about 20 minutes at + 35° C
Maximum/minimum thickness:	From 1 mm to 2 mm per coat (at least 2 coats)
Waiting time before applying second coat:	Between 90 min. and 4 hours, according to climate conditions
Light traffic on dry supports	1 day
Resistance to rain after approx:	6 hours*
Resistance to high pressure water after approx:	7 days*
Setting of tiles after approx.:	1 day*
Adhesion strength:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after water immersion:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after thermal aging :	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after freeze-thaw cycles :	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after contact with limewater :	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after contact with chloridewater :	≥ 0.5 N/mm <sup>2</sup>
Water permeability:	None
Crack bridging:	> 2.6 mm
Resistance to temperature:	From -20° C to + 60° C (not coated); From -30° C to + 90° C (coated)

\* at 23° C and 50% relative humidity

# Two component waterproofing cementitious coatings

■ Company with certified quality system **ISO 9001**

## ACQUASHIELD-FAST

### Two component quick-drying mortar for waterproofing



25 kg + 10 kg



2 x 6,5 kg + 5,2 kg

- Fast drying
- Resistant to rain, traffic and ready to be covered after 4 hours
- Easily applied with a roller, brush or spatula
- Waterproof and flexible levelling-off for cement based substrates even on uneven surfaces
- Waterproofing of baths, showers, and swimming pools before ceramic tile laying
- Total and durable protection and waterproofing of screeds on balconies and terraces
- Waterproofing on pre-existing ceramic floors
- Waterproof, flexible levelling-off on cement-based plasters, even if cracked
- Waterproof coating of walls in contact with the ground, foundations and lift-shafts
- Waterproof coating of tanks for containing water
- Waterproof, flexible levelling-off on plaster-board
- In accordance with standard EN 14891, CM O1 P



Remark: Fast drying  
Pot life: 45 min at +23°C/  
15 min at 35°C  
Light foot traffic after: 4 hours\*  
Consumption: 1.5 kg/m<sup>2</sup>  
(depending on the stress level)  
EN 14891 CM O1 P

Art. no/Colour	Package/Pallet
000001097/Comp. A	<b>35 kg (A+B)</b>
000001098/Comp. B	25 kg bag/42 bags europallet
	10 kg can/40 cans europallet
000001096/Comp. A	<b>18.2 kg (A+B)</b>
000001099/Comp. B	2 bags 6.5 kg/27 boxes europallet
	5.2 kg can



**Technical features:** ACQUASHIELD-FAST is a highly resistant, fast cement-based two component mortar with quartz with granulometry lower than 0.3 mm and new generation additives (component A) and high-tech synthetic polymers in water dispersion (component B).

It can be easily applied even vertically with a roller and brush and provides exceptional adhesion. It has been formulated and developed to protect cement-based plasters and concrete structures - including those in contact with the ground, such as exterior cement-based screed on terraces, balconies and swimming pools - against premature ageing caused by the action of water, salts and frost. The particular polymer filming present in component B, which develops in the product drying phase both

on the surface and in mass in the internal microcavities, creates a barrier to the passage of water and salt that may be contained therein and against gases in the air, thus creating long-lasting protection from those substances such as chlorides, sulphates, carbon dioxide and sulphur dioxide, which are the cause of the deterioration of concrete and reinforcing rods. Thanks to the fast drying process, the waterproofing sheath is resistant to rain in just 3 hours and can be walked on and is ready to be covered after 4 hours. The product is particularly suitable for the waterproofing of tanks intended for water containment and can also be used on old substrates such as pre-existing ceramic floors, provided that they are clean, resistant, well anchored and are free of any water stagnation.





## Product Technical Data

Basis:	Premixed powder ( <b>Comp. A</b> ) liquid polymer ( <b>Comp. B</b> )
Color:	Grey ( <b>Comp.A</b> ), White ( <b>Comp.B</b> )
Conservation:	12 months in the original closed package in a cool dry place
Flammability:	No
Mixture ratio:	2.5 : 1 part
Mixing time:	2 - 3 min. (drilling machine min. 300 - 500 r/min)
Consistency:	Thixotropic mortar
Apparent mass volume:	1600 kg/m <sup>3</sup>
Application temperature:	From + 5° C to + 35° C
Pot life:	Approx. 45 min. at + 23°C, about 15 minutes at + 35°C
Maximum/minimum thickness:	From 1 mm to 2 mm per coat (at least 2 coats)
Waiting time before applying second coat:	60 min. on non-absorbent support
Light traffic on dry supports	4 hours
Exposure to rain after approx.	3 hours
Resistance to high pressure water after approx:	3 days
Setting of tiles after approx.:	4 hours
Adhesion strength:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after water immersion:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after thermal ageing:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after freeze-thaw cycles:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after contact with limewater:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after contact with chloride water:	≥ 0.5 N/mm <sup>2</sup>
Water permeability:	None
Crack bridging ability under standard conditions:	≥ 1.20 mm
Crack bridging ability at low temperature (-5°C):	> 0.8 mm
Stretching to breaking point according to EN 53504:	≥ 120%
Resistance to temperature:	From -30° C to + 90° C
* at 23°C and 50% relative humidity	

# Two component waterproofing cementitious coatings

■ Company with certified quality system **ISO 9001**

## ACQUASHIELD

Two components, flexible waterproof coating for balconies, terraces, swimming pools, concrete artifacts



Pot life: 45 min at + 23°C/  
15 min at + 35°C

Light foot traffic after:  
24 hours\*

Consumption: 3.5-5 kg/m<sup>2</sup>  
min. thickness di 2 mm  
EN 14891 CM P

- Total and long-lasting protection and waterproofing of screed on balconies and terraces.
- Waterproofing of swimming pools, baths, showers before the installation of ceramic tiles.
- Waterproof coating on walls in contact with the ground, foundations and lift-shafts.
- Waterproof coating of water tanks.
- Waterproofing on old ceramic floors.
- Conforms to EN 14891 CM P



Art. no/Colour

Package/Pallet

**Remark: Finer grain size, excellent workability**

Grey  
000001454/Comp.A  
000001525/Comp.B

**33 kg (A+B)**  
25 kg bag/48 bags europallet  
8 kg can/48 cans pallet



Two-component mortar consisting of cements, fine aggregates with graded particle size, special additives (Component A) and synthetic polymers in aqueous dispersion (Component B). Easy to apply on both horizontal and vertical surfaces, it offers outstanding adhesion.

The formula was created to protect from aging due to the action of water, salts, frost, cementitious plasters and artifact in concrete, even in contact with ground, as well as cementitious screeds in external places: terraces, balconies and swimming pools.

### Product Technical Data

Basis:	Premixed powder (Comp.A) liquid polymer (Comp.B)
Color:	Grey (Comp.A) - White (Comp.B)
Conservation:	12 months in the original closed package in a cool dry place
Flammability:	No
Mixture ratio:	25:8
Mixing time:	2 - 3 min. (drilling machine min. 300 - 500 r/min)
Consistency :	Thixotropic mortar
Apparent mass volume:	1600 kg/m <sup>3</sup> ,
Application temperature:	From + 5° C to + 35° C
Maximum/minimum thickness:	From 1 mm to 2 mm per coat (at least 2 coats)
Waiting time before applying second coat:	Between 2 - 6 hours, according to climate conditions
Exposure to rain after approx.:	6 hours
Pressure water after approx. :	7 days
Setting of tiles after approx.:	1 day
Water permeability:	No penetration
Crack bridging:	≥ 1.80 mm
Stretching to breaking point according to EN53504:	≥ 130%
Resistance to temperature:	From -30°C to + 90°C
*at 23°C and 50% relative humidity	



# Two component waterproofing cementitious coatings

Consult the technical specifications at [www.benfer.it](http://www.benfer.it)

## ACQUASHIELD+

Flexible, two-component mortar for waterproofing application. Grey and white versions available.



Pot life: 45 min at + 23°C/  
15 min at + 35°C  
Light foot traffic after: 24 hours\*  
Consumption: 1.50 kg/m<sup>2</sup>/mm  
thickness  
EN 14891 CM P

- Waterproof and flexible levelling-off for cement based sub bases even with uneven surfaces
- Waterproof, flexible, skimming on cement-based plasters, even if cracked
- Waterproof coating of walls in contact with the ground, foundations and lift-shafts
- Waterproofing of baths, showers, balconies, terraces, and swimming pools before the ceramic tiles laying
- Waterproofing of water tanks
- Waterproof flexible coat on plaster-board
- Protection and total waterproofing of screeds in terraces and balconies
- Waterproofing on pre-existing tile floors
- **White version:** used on the back of marble tiles as protection against superficial stains

ACQUASHIELD+ is a two-component mortar consisting of high resistance cements, fine aggregates with graded particle size (less than 0,3 mm), special additives (component A) and synthetic polymers in aqueous dispersion (component B).



Remark: Excellent quality/price ratio

Art. no/Colour  
Grey/White  
000011005/Comp.A White  
000011000/Comp.B Grey  
000011011/Comp.B

Package/Pallet

25 kg (A+B)  
20 kg bag/42 bags europallet  
20 kg bag/42 bags europallet  
5 kg cans/42 cans pallet



Easy to apply on both horizontal and vertical surfaces, it offers outstanding adhesion. The product is especially recommended to waterproof balconies, terraces and water tanks, and can also be used on old substrates whose aging is due to water, salts and frost; it protects also cement plasters, concrete manufactures, even in contact with ground, as well as cement screeds on terraces, balconies and swimming pools.

## Product Technical Data

Basis:	Premixed powder (Comp.A) liquid polymer (Comp.B)
Color:	White and Grey (Comp.A) - White (Comp.B)
Conservation:	12 months in the original closed package in a cool dry place
Flammability:	No
Mixture ratio:	4:1
Mixing time:	2 - 3 min. (drilling machine min. 300 - 500 r/min)
Consistency:	Thixotropic mortar
Apparent mass volume:	1600 kg/m <sup>3</sup> ,
Application temperature:	From + 5° C to + 35° C
Maximum/minimum thickness:	From 1 mm to 2 mm per coat (at least 2 coats)
Waiting time before applying second coat:	Between 2 - 6 hours, according to climate conditions
Exposure to rain after approx.:	6 hours
Exposure to pressure water after approx.:	7 days
Exposure to setting of tiles after approx.:	1 day
Water permeability:	No penetration
Crack bridging:	≥ 1.00 mm
Expanding to crack according to EN 53504:	≥ 110%
Resistance to temperature:	From -30°C to + 90°C
Adhesion strength:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after water immersion:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after thermal ageing:	≥ 0.5 N/mm <sup>2</sup>
* at 23°C and 50% relative humidity	



# One component waterproofing cementitious coatings

■ Company with certified quality system **ISO 9001**

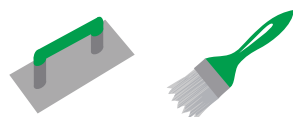
## ACQUASHIELD-1KF

One component, flexible cementitious and polymers waterproofing slurry, lightweight



Pot life: 60 min at + 23°C/  
20 min at + 35°C  
Light foot traffic after: 2 hours\*  
Consumption: 2.3 kg/m<sup>2</sup>  
min. thickness di 2 mm  
EN 14891 CM P

- Seamless and jointless flexible crack-bridging waterproof system
- Suitable for all load-bearing substrates usual in construction
- Hydraulic setting
- Simple efficient application
- Can be applied by brush, trowel or suitable spray equipment
- Bonds without priming to damp substrates
- Vapour permeable, resistant to frost, UV and ageing
- Low consumption just 2.3 kg/m<sup>2</sup>
- Conforms to EN 14891 CM P



Art. no/Colour

Package/Pallet

Nota: Monocomponente

000012001/Grey

15 kg bag/42 bags europallet



Bonded waterproofing system for tiles: for secure and effective waterproofing beneath tiles, where impermeability to water is required for longer term to constant water exposure e.g. in domestic bathrooms and kitchens, private and communal washrooms, on terraces and balconies. Wall and floor junctions are reinforced with the incorporation of BSWTAPE

## Product Technical Data

Basis:	Premixed powder
Colour:	Grey
Conservation:	12 months in the original closed package in a cool dry place
Flammability:	No
Mixture ratio:	4-4.5 liters of water for 15 kg bag
Mixing time:	2 - 3 min. (drilling machine min. 300 - 500 r/min)
Consistency :	Thixotropic mortar
Apparent mass volume:	1300 kg/m <sup>3</sup>
Application temperature:	From + 5° C to + 35° C
Maximum/minimum thickness:	From 1 mm to 2 mm per coat (at least 2 coats)
Waiting time before applying second coat:	Between 90 min. – and 4 hours, according to climate conditions
Exposure to rain after approx.:	8 hours
Resistance to high pressure water after approx:	7 days
Setting of tiles after approx.:	1 day
Tensile strength:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after water immersion:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after thermal aging :	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after frost-thaw cycles :	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after contact with limewater :	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after contact with chloridewater :	≥ 0.5 N/mm <sup>2</sup>
Water permeability:	No penetration
Crack bridging:	≥ 1.20 mm
Expanding to crack according to EN53504:	115%
Resistance to temperature:	From -30°C to + 90°C,
* at 23°C and 50% relative humidity	

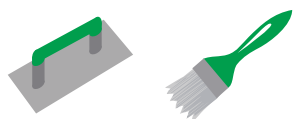
## ACQUASHIELD MONO

One component, flexible cementitious and polymers waterproofing slurry



Pot life: 60 min at + 23°C/  
20 min at + 35°C  
Light foot traffic after: 1 day\*  
Consumption: 2.6 kg/m<sup>2</sup>  
thickness di 2 mm  
EN14891 CM P

- Seamless and jointless flexible crack-bridging waterproof system
- Suitable for all load-bearing substrates usual in construction
- Hydraulic setting
- Simple efficient application
- Can be applied by brush, trowel or suitable spray equipment
- Bonds without priming to damp substrates
- Vapour permeable, resistant to frost, UV and ageing
- Low consumption just 2.6 kg/m<sup>2</sup>
- Conforms to EN14891 CM P



Art. no/Colour

Package/Pallet

Remark: One component

000012026/Grey

20 kg bag/60 bags pallet



Bonded waterproofing system for tiles: for secure and effective waterproofing beneath tiles, where impermeability to water is required for longer term to constant water exposure e.g. in domestic bathrooms and kitchens, private and communal washrooms, on terraces and balconies.

**Areas of application:** Bonded waterproofing system for tiles: for secure and effective waterproofing beneath tiles, where impermeability to water is required for longer term to constant water exposure e.g. in domestic bathrooms and kitchens, private and communal washrooms, on terraces and balconies. Wall and floor junctions are reinforced with the incorporation of BSWTAPE.

### Product Technical Data

Basis:	Premixed powder
Colour:	Grey
Conservation:	12 months in the original closed package in a cool dry place
Flammability:	No
Mixture ratio:	4.8 lt of water for 20 kg bag
Mixing time:	2-3 min. (drilling machine min. 300 - 500 r/min)
Consistency:	Thixotropic mortar
Apparent mass volume:	1500 kg/m <sup>3</sup>
Application temperature:	From + 5° C to + 35° C
Pot Life:	60 min at +23°C/20 min at +35°C
Maximum/minimum thickness:	From 1 mm to 2 mm per coat (at least 2 coats)
Waiting time before applying second coat:	Between 90 min. – and 4 hours, according to climate conditions
Light traffic on dry supports:	1 day
Exposure to rain after approx.:	12 hours
Resistance to high pressure water after approx.:	7 days
Setting of tiles after approx.:	1 day
Tensile strength:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after water immersion:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after thermal aging :	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after frost-no frost cycles :	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after contact with limewater:	≥ 0.5 N/mm <sup>2</sup>
Tensile strength after contact with chloridewater:	≥ 0.5 N/mm <sup>2</sup>
Water permeability:	No penetration
Crack bridging:	≥ 0.75 mm
Expanding to crack according to EN53504:	≥ 130%
Resistance to temperature:	From -30°C to + 90°C
*at +23°C, 50% relative humidity	

# One component waterproofing cementitious coatings

■ Company with certified quality system **ISO 9001**

## ACQUASHIELD-1K

### Waterproof slurry



Pot life: 60 min at + 23°C/  
20 min at + 35°C  
Light foot traffic after:  
24 hours\*  
Consumption: 3.5-4.5 kg/m²

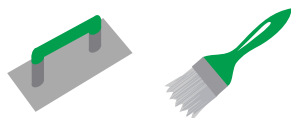
- Rigid waterproof cement-based coating
- Composed by quartz sand, Portland cement and additives. Does not contain material that may have negative effects on cement or reinforced cement
- Easy hardening process; becomes rigid; in case of possible surface cracks you may use ACQUASHIELD-2K



#### Areas of application:

Waterproofing on concrete, walls and plaster, for internal and external use, in the following areas of application:

- civil engineering: underground construction, sanitations, water tanks, swimming pools, pits
- buildings: cellars
- buildings in contact with water: tunnels, swimming pools, channels and containment walls
- restoration of buildings: old buildings and not waterproof against damp and water penetrating from the exterior



Art. no/Colour

Package/Pallet

Remark: Resistant to negative hydrostatic pressure

000012024/Grey

25 kg bag/48 bags europallet



Surface must be clean, solid and accurately analyzed. It must be free of oily materials, dust, holes, cracks and irregular parts. ACQUASHIELD-1K is ideal for smooth cement, screeds, asphalt mastic, plaster, plasterboards and masonry panels. Greenery covered, concrete surfaces for channel blocks and sanitations; Precast concrete blocks must be plastered with cement mortar BENFERCURE-VARIO or ACQUASHIELD-1K. Use right methods to prepare supports according to their condition, for example brushing it, cleaning, roughing, grinding, or cleaning with a high-pressure water clean.

### Product Technical Data

Basis:	Premixed powder
Colour:	Grey
Conservation:	12 months in the original closed package in a cool dry place
Flammability:	No
Mixture ratio:	6.7 liters of water per 25 kg bag
Mixing time:	2 - 3 min. (drilling machine min. 300 - 500 r/min)
Consistency :	Thixotropic mortar
Apparent mass volume:	1700 kg/m³
Application temperature:	From + 5° C to + 35° C
Maximum/minimum thickness:	From 1 mm to 2 mm per coat (at least 2 coats)
Waiting time before applying second coat:	Between 4 and 6 hours, according to climate conditions
Exposure to rain after approx.:	8 hours
Resistance to high pressure water after approx.:	7 days
Setting of tiles after approx.:	1 day
Adhesion strength:	≥ 0.5 N/mm²
Tensile strength:	≥ 0.5 N/mm²
Tensile strength after water immersion:	≥ 0.5 N/mm²
Tensile strength after thermal aging :	≥ 0.5 N/mm²
Tensile strength after frost-thaw cycles :	≥ 0.5 N/mm²
Tensile strength after contact with limewater :	≥ 0.5 N/mm²
Tensile strength after contact with chloridewater :	≥ 0.5 N/mm²
Water permeability with positive hydrostatic pressure 5 bar :	No penetration
Water permeability with positive hydrostatic pressure 1.5 bar:	No penetration
Resistance to compression:	6.8 N/mm² at 28 days (ASTM C 579)
Resistance to temperature:	From -30°C to + 90°C, * at 23°C and 50% relative humidity





## ACQUASHIELD-READY

Liquid applied, fast setting, elastomeric waterproof membrane



Light foot traffic after:  
2 hours\*

Consumption: 0.96-1.00 kg/m<sup>2</sup>  
(at 0.8 mm dry film thickness)  
EN 14891  
DMO1P, ANSI A118.12  
GREENGUARD

### ADVANTAGES

- Rapid hardening allows to tile two hours after second coat application\*
- It is not necessary to use waterproofing tape to connect joints to be coated provided the gap is 3 mm or lower
- Excellent crack bridging properties, it seals directly cracks and seams not structural up to 3 mm wide
- Bonds directly to metal, ABS and PVC plumbing fixtures only inside and outside for showers, bathrooms, wellness centres, jacuzzi, swimming pools, kitchens, balcony and terraces
- High yield, 5.00 m<sup>2</sup> per 5 kg and 10.00 m<sup>2</sup> per 10 kg bucket

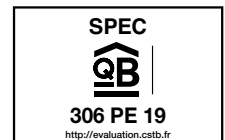
### APPLICATION ADVANTAGES

- Extremely tender and fast to apply, it requires the same effort of a paint
- Once dry it changes colour from light green to olive green, to make easier tile application
- No solvents
- Low VOC emission
- Bucket shape allows roller to get in

### CERTIFICATIONS

- Classified "extra heavy service" according to ASTM C627 Robinson floor test
- Conforms to EN 14891 DMO1P, ANSI A118.12
- Equipped with anti-microbial technology Microban® to protect the treated article

\* at +23 °C e 50% relative humidity



Art. no/Colour

Package/Pallet

Remark: Excellent quality/price ratio, rapid drying

205004013/Green  
205004014/Green  
205004015 /Green

5 kg bucket/80 buckets europallet  
10 kg bucket/40 buckets europallet  
20 kg bucket/32 buckets europallet

### Technical features:

ACQUASHIELD-READY is a liquid applied, ready to use, polymer dispersion which dries to form a seamless elastomeric waterproof membrane. The waterproof membrane provides a breathable yet water proof elastomeric barrier with crack bridging properties. ACQUASHIELD-READY is approved as the waterproof component of waterproofing systems and tile laying systems, inside and outside.

## Areas of application:

ACQUASHIELD-READY is used to waterproof wet rooms such as shower areas, bathrooms, kitchens, swimming pools, balcony, terraces and sanitary areas in public, industrial and private buildings. ACQUASHIELD-READY is specially recommended when working in time constriction because it overtakes complications caused by the use of fabrics or waterproof tapes and collars due to its ability to fill directly gaps lower than 3mm.

ACQUASHIELD-READY is not suitable as a finish coat, it must be covered with tiles, mosaic or natural stone.



## Product Technical Data

Basis:	Liquid polymeric dispersion
Colour:	Light green
Conservation and shelf life:	24 months in the original closed package in a cool dry place
Flammability:	No
Apparent mass volume:	1360 kg/m <sup>3</sup>
Mixture ratio:	Ready to use
Consistency:	Soft cream
Mixing:	Manually for a few seconds
Application temperature:	From + 10° C to + 35° C
Maximum/minimum thickness of the dry film:	0.5 - 0.8 mm
Vapor permeable	
Light traffic on dry supports:	2 hours*
Tiles application:	2 hours from second coat application *
Initial Adhesion:	≥ 0.5 N/mm <sup>2</sup>
Adhesion after Immersion in Water:	≥ 0.5 N/mm <sup>2</sup>
Adhesion after Heat Action:	≥ 0.5 N/mm <sup>2</sup>
Adhesion after Freeze-Thaw Cycles:	≥ 0.5 N/mm <sup>2</sup>
Adhesion after Immersion in Calcium-Saturated Water:	≥ 0.5 N/mm <sup>2</sup>
Adhesion after Immersion in Coloured Water:	≥ 0.5 N/mm <sup>2</sup>
Permeability:	No penetration
Crack-bridging:	> 5 mm
Crack-bridging Ability (-5°C):	> 0,75 mm
Resistance to traction:	1.8 N/mm <sup>2</sup>
Elongation to break:	250%
Resistance to temperature:	From - 20°C a +130°C, * at +23°C and 50% relative humidity



## ACQUASHIELD-GEL

Liquid applied, fast setting, elastomeric waterproof membrane

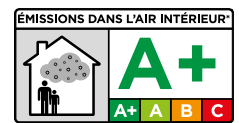


Pot life: 60 min\*  
Light foot traffic after: 6 hours\*  
Consumption: 1.2 kg/m<sup>2</sup>  
(at 0.6 mm dry film thickness)

- Easy to apply single component
- Application possible, reducing working steps
- Waterproof membrane system
- Fast curing allows tiling on same day
- Excellent crack bridging properties
- Breathability allows release of trapped moisture
- Tiling should be done with adhesive such as: BENFERFLEX C2, BENFERFLEX+S1



AQUASHIELD-GEL is a polymer dispersion based on synthetic rubber of liquid consistency, ready to use, it dries creating a jointless elastomeric waterproof membrane .  
The waterproof membrane provides a vapour breathable barrier with crack bridging properties.



Art. no/Colour

Package/Pallet

Remark: Excellent quality/price ratio, rapid drying

205004003/Blue  
205004005/Blue

5 kg bucket/80 Buckets europallet  
20 kg bucket/32 Buckets europallet



ACQUASHIELD-GEL is used to waterproof wet rooms such as shower areas, bathrooms, kitchens and sanitary areas in public and private buildings. ACQUASHIELD-GEL is used to waterproof balconies and terraces beneath tiles in temperate climate zones (without longterm frost load). ACQUASHIELD-GEL is suitable for fast track job requirements and overcomes the complications associated with intricate waterproofing details. ACQUASHIELD-GEL is, however, not suitable for continuous water immersed conditions or as a final exposed waterproof finish.



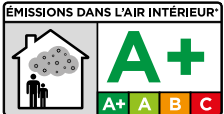



### Product Technical Data

Basis:	Liquid polymeric dispersion
Colour:	Blue
Conservation:	15 months in the original closed package in a cool dry place
Flammability:	No
Apparent mass volume:	1400 kg/m <sup>3</sup>
Mixture ratio:	Ready to use
Consistency :	Thixotropic gel
Mixing time:	Mixing manually for a few seconds
Application temperature:	From + 5° C to + 30° C
Maximum/minimum thickness:	0.6 mm for coat
Light traffic on dry supports	1 day
Tiles application:	1 day
Adhesion strength:	≥ 0.8 N/mm <sup>2</sup>
Tensile strength after water contact:	≥ 0.8 N/mm <sup>2</sup>
impermeability :	No penetration
Resistance to traction :	1.8 N/mm <sup>2</sup>
Elongation to break:	132%
Resistance to temperature:	From -10°C to + 45°C
* at 23°C and 50% relative humidity	



## KIT EASYBATH

### Shower tanking system kit

	<ul style="list-style-type: none"> <li>• Easy to use</li> <li>• Suitable for concrete, gypsum, plasterboard, wood and plaster</li> </ul> <p><b>CONTAINS:</b>            Primer BENFERPRIM 1 kg            Highly flexible paste ACQUASHIELD-GEL 5 kg            Flexible jointing tape for 6.25 m            Plastic gloves            Plastic cover</p> <p><b>WATERPROOFING 5.8 m<sup>2</sup></b></p>	  
		
	Art. no	Package/Pallet
Remark: Complete set	0000009540	56 boxes/europallet







EASYBATH is a complete set to waterproof the substrate before tiles application in showers, toilets, kitchens, and in the rooms subjects to frequent washing. The waterproofing action is provided by ACQUASHIELD-GEL, which becomes, with the waterproofing tape, a permanent waterproofing barrier.

BENFERPRIM primer is supplied as accessory to prepare in the best manner the substrates and should be absolutely used on Gypsum, plaster, plasterboards and wooden boards. It provide a better adhesion on all the substrates.

EASYBATH KIT allows to waterproof 5.8 m<sup>2</sup>, which correspond to the surface of a 3 walls shower 80 x 80 cm, 200 cm high.

## BSWTAPE

### Sealing tape for general requirements

	<ul style="list-style-type: none"> <li>• High quality composite material, expandable, tear-proof, waterproof, water vapour permeable</li> <li>• For the waterproofing of expansion and dilatation joints in sealing layers of ACQUASHIELD-GEL, ACQUASHIELD-2KF, ACQUASHIELD</li> <li>• For all types of surfaces in fields of construction, which are to be tiled or for waterproofing layers which have been skilfully prepared</li> </ul>	  
		
	Art. no./Width x Length	Package/Pallet
Remark: Highly resistant	205936007/12 cm x 10 m 205936000/12 cm x 50 m	10 m roll/234 rolls 50 m roll/120 rolls



BSWTAPE is a new type of composite material, expandable, tensile, stable, waterproof but allows intrusion of water vapour diffusion pores. It guarantees the fast drying of water-containing tile adhesives and water proofing layers. BSWTAPE is highly resistant to aggressive substances.





BSWTAPE is a product according to the ZDB-leaflet "Instructions for the application of waterproofing layers in composite with covering and panelling of tiles and panels for interior and exterior use".

### Product Technical Data

Basis:	Composite material = felt - membrane - felt
Colour:	White
Thickness:	0.45 mm
Large:	120 mm
Weight:	19.8 gm
Storage and durability:	5 years in the original closed package in a cool dry place
Application temperature:	From + 5° C to + 35° C
Burst pressure:	2.5 bar
Longitudinal rupture loading:	71 N/15 mm
Transversal I rupture loading:	38 N/15 mm
Longitudinal elongation:	80%
Transversal elongation:	107%
Impermeability to water:	> 1.5 bar
UV resistance:	500 h
<b>Chemical resistance after 7 days at 22°C to the following chemical substances:</b>	
Hydrochloric acid 3%:	Resistant
Sulfuric acid 35%:	Resistant
Citric acid 100g/l:	Resistant
Lactic acid 5%:	Resistant
Potassium hydroxide 3%:	Resistant
Sodium hydroxide 0.3 g/l:	Resistant
Sea water 20 g/l:	Resistant
Resistance to temperature:	From -30°C to + 90°C





## BSWTAPE CORNERS

Angles 90° int/ext

	<ul style="list-style-type: none"><li>• High quality composite material, expandable, tear-proof, waterproof, water vapour permeable</li><li>• For the waterproofing of expansion and dilatation joints in sealing layers of ACQUASHIELD-GEL, ACQUASHIELD-2KF, ACQUASHIELD</li><li>• For all types of surfaces in fields of construction, which are to be tiled or for waterproofing layers which have been skilfully prepared</li></ul>	
	<div></div>	
Remark: Highly resistant	<div><div>Art. no./Width x Length</div><div>205944002/12 cm 90° int 205943002/12 cm 90° ext</div></div>	<div><div>Package/Pallet</div><div>10 pcs box/20 boxes 10 pcs box/20 boxes</div></div>





## BSWTAPE SLEEVE

Joint sleeve wall/floor

	<ul style="list-style-type: none"><li>• High quality composite material, expandable, tear-proof, waterproof, water vapour permeable</li><li>• For the waterproofing of expansion and dilatation joints in sealing layers of ACQUASHIELD-GEL, ACQUASHIELD-2KF, ACQUASHIELD</li><li>• For all types of surfaces in fields of construction, which are to be tiled or for waterproofing</li></ul>							
	<div></div>							
Remark: Highly resistant	<table><tr><th>Art. no./Width x Length</th><th>Package/Pallet</th></tr><tr><td>Wall 205937002/12 cm x 12 cm</td><td>25 pcs box/50 boxes</td></tr><tr><td>Floor 205938002/45 cm x 45 cm</td><td>25 pcs box/50 boxes</td></tr></table>	Art. no./Width x Length	Package/Pallet	Wall 205937002/12 cm x 12 cm	25 pcs box/50 boxes	Floor 205938002/45 cm x 45 cm	25 pcs box/50 boxes	
Art. no./Width x Length	Package/Pallet							
Wall 205937002/12 cm x 12 cm	25 pcs box/50 boxes							
Floor 205938002/45 cm x 45 cm	25 pcs box/50 boxes							

## BSWTAPE ECO

### Waterproof sealing tape

	<ul style="list-style-type: none"> <li>• Water impermeable</li> <li>• Elastic</li> <li>• UV stabilized</li> <li>• Resistant to weathering</li> <li>• Alkali resistant</li> </ul>	
		
<b>Remark: Waterproof, elastic</b>	Art. no./Width x Length <b>205987002/12 cm x 50 m</b>	Package <b>50 m roll</b>



BSWTAPE ECO is used for the formation of flexible, water impermeable movement joints and connecting joints beneath tiles within e.g. ACQUASHIELD-GEL, ACQUASHIELD-1KF, ACQUASHIELD-2KF, ACQUASHIELD-FAST.

bswtape eco is easy to use and forms an intimate bond with the above named waterproof systems. BSWTAPE ECO can be used in wet duty classes AO and B0 in accordance with the ZDB information sheet "Bonded waterproof membranes".




bswtape eco fulfills the requirements of the test principles of the DIBt and the information sheet "Bonded waterproof membranes" that relate to the conditions in damp duty classes A and C.

### Product Technical Data

Basis:	Polypropylene Fabric with an elastomeric part, thermoplastic and aging process resistant
Colour:	Grey
Thickness:	0.72 mm
Large:	120 mm
Weight:	38.3 g/m
Storage and durability:	5 years in the original closed package in a cool dry place
Application temperature:	From + 5° C to + 35° C
Burst pressure:	> 4 bar
Longitudinal rupture loading:	144 N/15 mm
Transversal I rupture loading:	49 N/15 mm
Longitudinal elongation:	26%
Transversal elongation:	129%
Impermeability to water:	> 1.5 bar
UV resistance:	500 h
<b>Chemical resistance after 7 days at 22°C to the following chemical substances:</b>	
Hydrochloric acid 3%:	Resistant
Sulfuric acid 35%:	Resistant
Citric acid 100g/l:	Resistant
Lactic acid 5%:	Weakened
Potassium hydroxide 3%:	Resistant
Sodium hydroxide 0.3 g/l:	Resistant
Sea water 20 g/l:	Resistant
Resistance to temperature:	From -22°C to + 60°C

## BSWTAPE-AD

### Self-adhesive sealing tape

	<ul style="list-style-type: none"> <li>• Used to seal the joints between perpendicular planes</li> <li>• To prevent water infiltration in the cracks in ceramic tile and floor covering joints</li> <li>• Typically applied in swimming pools, terraces, balconies, water tanks, showers, bathrooms, kitchens and areas that are subject to frequent washing</li> </ul>	
		
	Art. no./Width x Length	Package
Remark: Easy to apply	000004119/80 mm x 10 m	10 m roll






BSWTAPE-AD is applied glued to the sub-base with simple hand pressure before applying the waterproofing product. BSWTAPE-AD can be placed between the first and second application.

### Product Technical Data

Basis:	Self-adhesive butyl tape
Color:	Grey
Thickness:	0.80 mm
Large:	100 mm
Weight:	72 g/m
Storage and durability:	5 years in the original closed package in a cool dry place
Application temperature:	From + 5° C to + 35° C
Burst pressure:	> 0.4 bar
Longitudinal rupture loading:	32 N/15 mm
Transversal rupture loading:	23 N/15 mm
Longitudinal elongation:	54 %
Transversal elongation:	81%
Impermeability to water:	> 0.2 bar
Resistance to temperature:	From -5°C to + 60°C



## FIBREGLASS MESH (RETE)

	<p>It is used together with ACQUASHIELD</p> <p>FIBREGLASS MESH for reinforcing waterproofing and finishing products. Increases resistance and performance of mortars, even in unfavorable environmental conditions.</p>	
		
	Art. no./Width x Lenght	Package
Remark: Alkalis resistant	000004110/1 m x 50 m	single



### Product Technical Data

Area mass:	135 ± 5 g/m <sup>2</sup>
Mesh size:	5 x 5 mm
Total width:	1000 mm
Total length:	50 meters
Average depth:	0.45 ± 0.04 mm
Finisher:	Resistance to alkalis
% Elongation at break:	4 ÷ 6%
Colour:	White
Packages:	Single rolls with 1 meter height and 50 meters length
Duration:	24 months in its original packaging






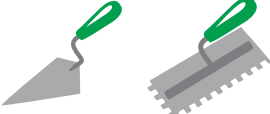



# Waterproofing and decoupling systems for terraces and green screed

■ Company with certified quality system **ISO 9001**

## BS WATERMAT

### Waterproofing and decoupling membrane

	<ul style="list-style-type: none"> <li>• Waterproofing membrane for balconies and terraces and for bonded waterproofing in combination with tiling in damp areas</li> <li>• Furthermore as a decoupling membrane for difficult substrates which are at risk of cracking</li> </ul> <p>Consumption: 1.01 m<sup>2</sup>/m<sup>2</sup></p>	 
		
<p>Remark: 20 mt of waterproofing tape included</p>	<p>Art. no 000004112</p>	<p>Package/Pallet 1 m x 15 m = 15 m<sup>2</sup>/24 pcs europallet (incl. 20 m Balcony joint tape)</p>



### Product Technical Data

Basis:	Composite material= felt –membrane - felt		
Color:	Yellow (up)/black (under)		
Thickness /Large:	0.87 mm/ 1000 mm		
Weight:	365 g/m <sup>2</sup>		
Storage and durability:	5 years in the original closed package in a cool dry place		
Application temperature:	From + 5° C to + 35° C		
Burst pressure:	4.3 bar		
Longitudinal rupture loading:	86.6 N/15 mm	Transversal rupture loading:	58.1 N/15 mm
Longitudinal elongation:	67.8%	Transversal elongation:	134.1 %
Resistance to temperature:	From -30°C to + 90°C		

## BSMAT

### Waterproof membrane



- Three layers uncoupling mat
- Fast and easy to apply
- Ideal on underfloor heating
- Ideal on plywood and chipboard



BSMAT is used to protect floor tiles against movement in the substrate. It protects the floor under thin-set tile installation from moisture migration and cracks. It can be applied beneath ceramic tiles, natural stone and synthetic stone finishes in internal areas, on cement and anhydrite based screeds, concrete slabs, old ceramic tiles, plywood and wooden boards.



Art. no/Colour

Package/Pallet

Remark: Reliable and easy to apply

00000 4170/White  
00000 4171/White

10 m<sup>2</sup> roll/60 rolls europallet  
50 m<sup>2</sup> roll/10 rolls europallet



**Application:** Cut the BSMAT to size with a knife or scissors. Using either a 4 mm or 6 mm notched trowel, comb the chosen adhesive (every Benfer flexible adhesive slow set or rapid set is suitable), onto the substrate to an area approx. 10 cm wider than the mat. Subsequently lay the membrane into the adhesive bed and press in with a smooth trowel or roller ensuring that there are no voids or folds. Ensure that the membrane is completely bedded with full transfer of adhesive. Cut membrane sections are to be butt jointed flush against each other.

### Product Technical Data

Basis:	Composite material made of 2 external parts in polypropylene non tissue and an internal part in glass fiber
Color:	White
Thickness:	0.85 mm
Large:	1000 mm
Weight:	270 gr/m
Storage and durability:	5 years in the original closed package in a cool dry place
Application temperature:	From + 5°C to + 35°C
Longitudinal rupture loading:	1115 N/50 mm
Transversal I rupture loading:	1290 N/50 mm
Longitudinal elongation:	8 %
Transversal elongation:	7 %

#### Chemical Resistance after 7 days at 22°C to the following chemical substances:

Hydrochloric acid 3%:	Resistant
Sulfuric acid 35%:	Resistant
Citric acid 100g/l:	Resistant
Lactic acid 5%:	Resistant
Potassium hydroxide 3%:	Resistant
Sodium hydroxide 0.3 g/l :	Resistant
Sea water 20 gr/l:	Resistant
Resistance to temperature:	From -5°C to + 90°C



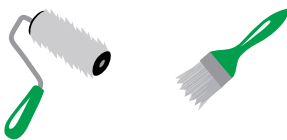
## STARPRIM

Primer for absorbent and non-absorbent substrates



Overcoatable: after 15/45 min\*  
Consumption: 100-150 gr/m<sup>2</sup>

- For absorbent and non-absorbent substrates
- For interior and exterior use
- Ready to use
- Solvent free
- Rapid drying
- Low emissions



Art. no/Colour

Package/Pallet

Remark: Rapid hardening,  
Ecological, resistant

000009571/Blue latex  
000009572/Blue latex  
000009573/Blue latex

10 kg can/36 cans europallet  
5 kg can/75 cans europallet  
2 kg can/100 cans europallet



**Technical features:** STARPRIM is a Primer based on special styrene butadiene polymer aqueous dispersion, designed to obtain a perfect adhesion to many kind of substrates, absorbent and non-absorbent.

**Fields of application:** STARPRIM is used as a primer to improve the adhesion to absorbent and non-absorbent substrates prior to the installation of ceramic finishes with cement-based or dispersion-based BENFER thin or mid-bed adhesives. STARPRIM reduces the porosity of the substrate and protects moisture sensitive substrates from the water in cement-based adhesives. Suitable for use on existing tiled finishes, hydraulically setting cement, cement-lime renders and gypsum plasters, gypsum fibre boards, moisture resistant plasterboard, brickwork, aerated concrete, lime-sand blocks, cement, calcium sulphate and poured asphalt screeds, levelling compounds, natural stone, steel and glass.

### Product Technical Data

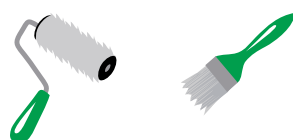
Basis:	Styrene butadiene polymers in water dispersion
Colour:	Blue
Storage and duration:	12 months in the original unopened packaging, in a cool, dry place
Flammability:	No
pH:	About 6.5
Density:	1.2 kg/dm <sup>3</sup>
Viscosity:	About 10.000 mPA/s at +23 °C
Application/substrate temp:	+5 °C to +40 °C
Temperature resistance:	-30 °C to +90 °C
Traversable on dry substrate:	Approximately 1 hour
Overcoatable:	After 1 hour
Time limit for application:	From 1 to 24 hours
*at 23 °C and 50% relative humidity	

**BENFERPRIM**

## Primer for absorbent substrates

Consumption: 200 g/m<sup>2</sup>

- For absorbent substrates
- For interior and exterior use
- Ready to use
- Solvent free
- Rapid drying
- Low emissions
- Consolidates dusty and inconsistent substrates
- Ideal for cement based plaster or gypsum
- Ideal for cement based screeds or anhydrite
- Ideal for wooden supports
- Ideal for cement artefacts
- Ideal to avoid dust
- Ideal for treatment of the back part of marble slabs, to avoid stains and color variations



Art. no/Colour

Package/Pallet

Remark: Rapid drying

000001521/White  
000001520/White  
000009560/White

25 kg can/32 cans pallet  
5 kg can/100 cans pallet  
1 kg pot/12 pots box



BENFERPRIM is a polymeric dispersion, designed to consolidate weak and dusty substrates normally used in buildings. It improves surface hardness and reduces water absorption to avoid a too fast water loss to the mortar applied on it. Once dry, it offers a good surface to Benfer tile adhesives, self levelling and waterproofing. Suitable for use on all absorbent substrates common in building, such as cement lime. Renders and cement-based or anhydrite screeds, gypsum plasters, gypsum fiber boards, wood. Ideal for cement artefacts. Adequate to avoid dust underneath raised floors.

**Product Technical Data**

Basis:	Styrene butadiene polymers in water dispersion
Colour:	White
Storage and duration:	12 months in the original unopened packaging, in a cool, dry place
Flammability:	No
pH:	About 5
Density:	1.06 kg/dm <sup>3</sup>
Viscosity:	About 3 mPA/s at +23 °C
Application/substrate temp:	+5 °C to +40 °C
Temperature resistance:	-30 °C to +90 °C
Consumption:	About 200 g/m <sup>2</sup>
Traversable on dry substrate:	Approximately 1 hour
Overcoatable:	After 1 hour
Deadline for use:	From 1 to 24 hours

# High-performance adhesives for ceramic and stable natural stone laying

■ Company with certified quality system **ISO 9001**

## BENFERFLEX+S1

Highly flexible, multi-purpose adhesive, applicable in thickness up to 20 mm, can be used as flow bed adhesive

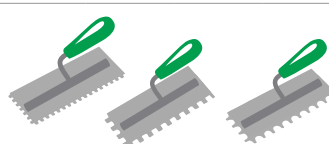
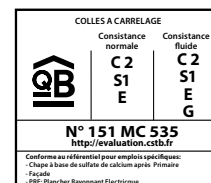


Pot life: 3 hours\*  
Foot traffic after: 12 hours\*  
Consumption: at least 1.3 kg/m<sup>2</sup>  
EN 12004 C2 TE S1

- Highly deformable
- Multi-purpose, can be used as self wetting adhesive
- Highly resistant to shrinkage, with outstanding application properties
- Long open time
- Very easy to use
- For heated substrates
- Dust reduced
- Tested in accordance with European standard EN 12004, C2 TE S1
- High yield
- For exterior and interior use, for terraces, for swimming-pool

*This product improvable with CEMLATEX 600, see table page 63*

Adhesive in powder, consisting of cements, graded particle size aggregates, synthetic resins and special additives. It has been formulated and developed for rapid, reliable installation of almost the totality of ceramic material, even on non-absorbent substrates and onto substrates subject to slight dimensional variation. The high resistance to vertical sliding allows to tile from the top down.



Maximum length of longest tile side in cm\*\*

Int.floor	Ext.floor	Int. wall	Ext. wall
360	120	360	90

Art. no/Colour

000012534/Extra white

000012536/Grey

Package/Pallet

25 kg bag/42 bags europallet  
60 bags/pallet

25 kg bag/42 bags europallet  
60 bags/pallet

\*\* For detailed information please refer to the Technical Product Data Sheet and the Adhesive selection guide table on pg.110

Thanks to its particular composition, BENFERFLEX+S1 can be mixed with a higher percentage of water to allow for complete "wetting" of the back of the tiles, even on large size formats, with no need for double buttering.

### Fields of application:

Laying of porcelain tiles, thin ceramic slabs, non absorbent single-fired tiles, double-fired tiles, and natural stones (water stable), even large size, and glass mosaic in:

- Interior and exterior walls and floors
- Heavy duty areas
- In conjunction with ACQUASHIELD waterproofing systems
- On top of old wall and floor tiles

### Suitable substrates

- Concrete
- Cement-based screeds, standard or heated with water system
- Cement-based plaster
- Flexible waterproofing membranes made up of cement and polymers (ACQUASHIELD-2KF)
- Cement based blocks

### Inside only:

- Fluid cement-based screeds (prior application of an appropriate primer if demanded), standard or heated with water system
- Fluid anhydrite-based screeds (prior application of an appropriate primer), standard or heated with water system
- Old ceramic tiles
- Standard or waterproof plasterboard
- Elastomeric waterproofing membranes (ACQUASHIELD-GEL)
- Cement-based and gypsum-based boards (prior application of an appropriate primer)



## Consumption:

Approx 1.8 kg/m <sup>2</sup>	with a notched trowel 4 mm
Approx 3.5 kg/m <sup>2</sup>	with a notched trowel 8 mm
Approx 4 - 5 kg/m <sup>2</sup>	with a notched trowel 10 mm
Approx 8 - 10 kg/m <sup>2</sup>	with a notched trowel 20 mm

## Product Technical Data

Basis:	Cement, aggregates, additives
Colour:	Extra white and Grey
Apparent mass volume:	1.1 kg/m <sup>3</sup>
Maximum grain size:	0.3 mm
Storage and Duration :	12 months in the original closed package in a cool dry place
Danger of harm:	No, Possible irritation of the eyes and skin upon contact
Flammability:	No
Mixture ratio:	32%, 8 liters of water/25 kg bag; 38-40%, 9.5-10 liters of water for 25 kg bag (flow bed)
Mixture consistency:	Cream
Mass volume of paste:	1.7 kg/dm <sup>3</sup>
Application temperature:	From + 5° C to + 35° C
Vertical slip according to EN 1308:	< 0.5 mm
Maximum thickness:	20 mm
Grouting:	12 hours*
Full service conditions after:	7 days*
Final hardening:	28 days*
<b>Final performance:</b>	
Adhesion at start (after 28 days):	> 1.0 N/mm <sup>2</sup>
Adhesion after warming:	> 1.0 N/mm <sup>2</sup>
Adhesion after water immersion:	> 1.0 N/mm <sup>2</sup>
Adhesion after frost-thaw cycles:	> 1.0 N/mm <sup>2</sup>
Deformable according to DIN EN 12004 (medium):	2.8 mm
Temperature resistance:	From -30 °C to +90 °C,
*at 23°C and 50% relative humidity	



# High-performance adhesives for ceramic and stable natural stone laying

■ Company with certified quality system **ISO 9001**

## BENFERFLEX C2

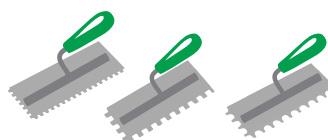
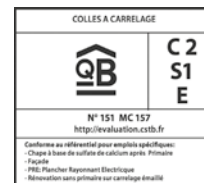
Fiber reinforced flexible adhesive



Pot life: 3 hours\*  
Grouting wall and floors: 12 hours\*  
Consumption: 3.5-5 kg/m<sup>2</sup>  
EN 12004 C2 TE S1

- High flexibility • No vertical sliding
- Ideal for exterior application • Ideal for heated screeds
- Ideal for porcelain stoneware • Ideal for large sizes
- Application thicknesses up to 15 mm
- Tested in accordance with EN 12004, C2 TE S1

**Technical features:** BENFERFLEX C2 is a thixotropic flexible powder adhesive consisting of high strength cements, graded particle size aggregates, synthetic resins and special additives. It has been formulated and developed for rapid, reliable installation of porcelain and ceramic tiles on non-absorbent substrates and onto substrates subject to slight dimensional variation. The high resistance to vertical sliding allows to tile from the top down.



Art. no/Colour				Package/Pallet	
000001026/White				25 kg bag/48 bags europallet	
000001059/Grey				25 kg bag/48 bags europallet	
Maximum length of longest tile side in cm**					
Int.floor	Ext.floor	Int. wall	Ext. wall		
360	120	360	90		

\*\* For detailed information please refer to the Technical Product Data Sheet and the Adhesive selection guide table on pg.110



### Fields of application:

Laying of porcelain, single fire ceramic tiles and water stable natural stones on:

- Interior and exterior walls and floors
- Heavy duty areas
- Public and private swimming pools



**Storage:** In the original unopened packaging in a dry and cool place.

**Shelf life:** 12 months from the date printed on the packaging.

## Product Technical Data

Basis:	Cement, aggregates, additives
Colour:	White and Grey
Apparent mass volume:	1.25 kg/dm <sup>3</sup>
Maximum grain size:	0.5 mm
Storage and Duration :	12 months in the original closed package in a cool dry place
Inflammable:	No
Mixture ratio:	27%, 6.75 liters of water/25 kg bag
Mixture consistency:	Creamy
Density of paste:	1.65 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Open time:	30 minutes*
Vertical sliding to EN 1308:	< 0.5 mm
Max thickness.:	15 mm
Foot traffic after :	12 hours*
Grouting:	12 hours*
Full service:	7 days*
Final hardening:	28 days*
<b>Final performance:</b>	
Adhesion (after 28 days):	> 1.0 N/mm <sup>2</sup>
Adhesion after warming:	> 1.0 N/mm <sup>2</sup>
Adhesion after water immersion:	> 1.0 N/mm <sup>2</sup>
Adhesion after frost-thaw cycles:	> 1.0 N/mm <sup>2</sup>
Deformability to EN 12004:	2.6 mm
Temperature resistance by:	-30°C to +90°C
* at 23°C and 50% relative humidity	

# High-performance adhesives for ceramic and stable natural stone laying

■ Company with certified quality system **ISO 9001**

## Benfer ECOFlex

### Fiber reinforced flexible adhesive



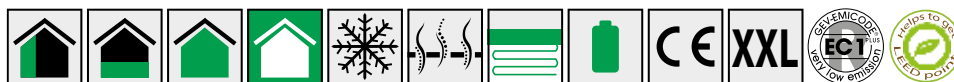
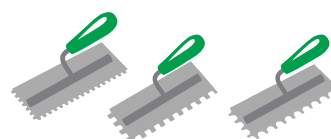
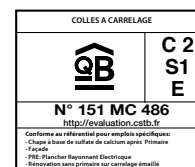
Pot life: 3 hours\*  
Grout after: 12 hours\*  
Consumption: 3.5 - 5 kg/m<sup>2</sup>  
EN 12004 C2 TE S1

- High flexibility
- Ideal for exterior application
- Ideal for heated screeds
- Ideal for porcelain stoneware
- Ideal for large sizes
- Application thicknesses up to 15 mm
- Tested in accordance with EN 12004, C2 TE S1
- No vertical sliding

#### Fields of application:

Laying of porcelain, single fired ceramic tiles and water stable natural stones on:

- Interior and exterior walls and floors
- Heavy duty areas
- Public and private swimming pools



Maximum length of longest tile side in cm\*\*

Int.floor	Ext.floor	Int. wall	Ext. wall
360	120	360	90

Art. no/Colour

00001005/White  
00001006/Grey

Package/Pallet

25 kg bag/48 bags europallet  
25 kg bag/48 bags europallet

\*\* For detailed information please refer to the Technical Product Data Sheet and the Adhesive selection guide table on pg.110



Benfer ECOFlex is a thixotropic powder adhesive consisting of high strength cements, graded particle size aggregates, synthetic resins and special additives. It has been formulated and developed for rapid, reliable installation of porcelain and ceramic tiles on non-absorbent substrates and onto substrates subject to slight dimensional variation. The high resistance to vertical sliding allows to tile from the top down.

### Product Technical Data

Basis:	Cement, aggregates, additives
Colour:	White and Grey
Apparent mass volume:	1.25 kg/dm <sup>3</sup>
Maximum grain size:	0.5 mm
Storage and Duration :	12 months in the original closed package in a cool dry place
Inflammable:	No
Mixture ratio:	27%, 6.75 liters of water/25 kg bag
Mixture consistency:	Creamy
Density of paste:	1.65 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Open time:	30 minutes*
Vertical sliding to EN 1308:	< 0.5 mm
Maximum thickness application:	15 mm
Foot traffic after:	12 hours*
Full service:	7 days*
Final hardening:	28 days*
Deformability according EN 12004:	2.6 mm
Temperature resistance:	From -30° C to +90° C, at 23°C and 50% relative humidity

## BENFERFLEX SEMI FLUIDE

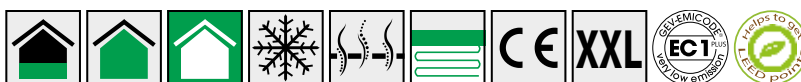
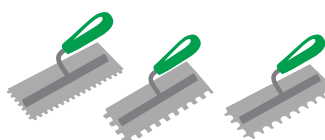
Flexible adhesive with semifluid consistency



Pot life: 3 hours\*  
Grout after: 12 hours\*  
Consumption: 3.5 - 5 kg/m<sup>2</sup>  
EN 12004 C2 EG S1

- Easy installation for floors
- Excellent for installation of large slabs
- Highly flexible
- Ideal for exterior application
- Ideal for heated screed
- Application up to 15 mm thick
- Tested in accordance with EN 12004, C2 EG S1

BENFERFLEX SEMI FLUIDE is a smooth, flexible adhesive consisting of high strength cement, graded aggregate, synthetic resins, and special additives. It has been formulated and developed for rapid, reliable installation of ceramic and porcelain tile over cement-based screeds, non-absorbent substrates, and other substrates with slight variation.



Maximum length of longest tile side in cm\*\*

Int.floor	Ext.floor	Int. wall	Ext. wall
360	120	NO	NO

Art. no/Colour  
000001066/Grey

Package/Pallet  
25 kg bag/48 bags europallet

\*\* For detailed information please refer to the Technical Product Data Sheet and the Adhesive selection guide table on pg.110



### Areas of application:

Installation of ceramic and porcelain tiles and non-moisture sensitive natural stones for:

- Interior and exterior floors
- Balconies and terraces

### Product Technical Data

Basis:	Cement, aggregates, additives
Colour:	Grey
Apparent mass volume:	1.25 kg/dm <sup>3</sup>
Maximum grain size:	0.5 mm
Storage and Duration:	12 months in the original sealed package in a cool dry place
Inflammable:	No
Mixing ratio:	30-32 %, 7.5-8.0 liters of water/25 kg bag
Density of paste:	1.65 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Pot Life:	3 hours*
Open time:	30 minutes*
Max application thickness:	15 mm
Foot traffic after:	12 hours*
Grouting:	12 hours*
Full service:	7 days*
Final hardening:	28 days*
* at 23°C and 50% relative humidity	





# High-performance adhesives for ceramic and stable natural stone laying

■ Company with certified quality system **ISO 9001**

## BENFERFLEX RAPIDO

Flexible adhesive, rapid setting, rapid hardening



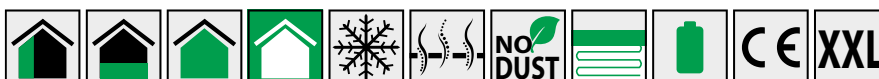
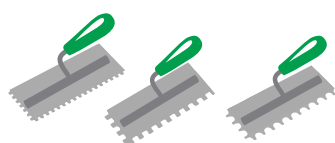
Pot life: 30 min\*  
Grout after: 2-3 hours\*  
Consumption: 3.5 - 5 kg/m<sup>2</sup>  
EN 12004, C2 FTE S1

- Suitable for the application on wooden composites subject to oscillations
- Ideal for porcelain stoneware
- For internal and external use
- Elevated flexibility
- Can be spread in a layer of up to 15 mm
- Tested in accordance with EN 12004 CLASS C2FTE S1
- Ideal for large sizes
- Extra white and grey
- Quick setting



*This product improvable with CEMLATEX 600, see table page 63*

BENFERFLEX RAPIDO is a flexible adhesive with high strength cements, graded particle size aggregates, special sintec resins and additives. Its formula has been studied and developed to lay quickly and safely marble, gres, natural stones, porcelain and ceramic tiles even on non absorbent and variable surfaces. Suitable for application on wooden boards, chipboard, plywood.



Maximum length of longest tile side in cm\*\*

Int.floor	Ext.floor	Int. wall	Ext. wall
360	120	360	90

Art. no/Colour

Package/Pallet

000001081/Extra white

20 kg bag/56 bags europallet

000001080/Grey

20 kg bag/56 bags europallet

\*\* For detailed information please refer to the Technical Product Data Sheet and the Adhesive selection guide table on pg.110



### Fields of application:

Laying of rapid hardening porcelain stoneware, one-fired ceramic tiles and water stable natural stones on:

- Interior and exterior walls and floors
- Heavy duty areas
- Wooden surfaces subject to oscillation
- Heated screed with warming water system or electric system

### Product Technical Data

Basis:	Cement, aggregates, additives
Colour:	Extra white and Grey
Apparent mass volume:	1.20 kg/dm <sup>3</sup>
Maximum grain size:	0.5 mm
Storage and Duration :	12 months in the original closed package in a cool dry place
Danger of toxicity:	No. The product may cause irritation to the eyes and skin due to presence of cement.
Inflammable:	No
Mixture ratio:	Extra white: 28 % 5.6 liters of water/20 kg bag Grey: 26 %, 5.2 liters of water/20 kg bag
Mixture consistency:	Creamy
Density of paste:	1.65 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Open time:	30 minutes
Vertical sliding according to EN 1308:	< 0.5 mm
Maximum thickness application:	15 mm
Foot traffic:	2-3 hours
Full service:	3 days
Final hardening:	7 days
Deformability according EN 12004 :	2.5 mm
Temperature resistance:	From -30° C to +90° C, *at 23°C and 50% relative humidity



## Benfer ECOFlex SP

### Flexible adhesive



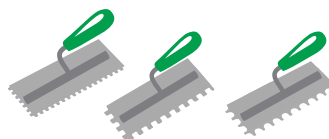
Pot life: 3 hours\*  
Grout after: 12 hours\*  
Consumption: 3.5 - 5 kg/m<sup>2</sup>  
EN 12004 C2 TE S1

- Extra white • High flexibility
- Ideal for exterior application
- Ideal for heated screeds
- Ideal for porcelain stoneware
- Ideal for large sizes
- Application thicknesses up to 15 mm
- Tested in accordance with EN 12004, C2 TE S1
- No vertical sliding

#### Fields of application:

Laying of porcelain, single fired ceramic tiles and water stable natural stones on:

- Interior and exterior walls and floors
- Heavy duty areas
- Public and private swimming pools



Maximum length of longest tile side in cm \*\*

Int.floor	Ext.floor	Int. wall	Ext. wall
360	120	360	90

Art. no/Colour  
24-01007-0025-22-M/  
Extra white

Package/Pallet  
25 kg bag/60 bags europallet

24-01007-0025-21-M/  
Grey

25 kg bag/60 bags europallet

\*\* For detailed information please refer to the Technical Product Data Sheet and the Adhesive selection guide table on pg.110



Benfer ECOFlex SP is a thixotropic powder adhesive consisting of high strength cements, graded particle size aggregates, synthetic resins and special additives. It has been formulated and developed for rapid, reliable installation of porcelain and ceramic tiles on non-absorbent substrates and onto substrates subject to slight dimensional variation. The high resistance to vertical sliding allows to tile from the top down.

### Product Technical Data

Basis:	Cement, aggregates, additives
Colour:	Extra white and Grey
Apparent mass volume:	1.25 kg/dm <sup>3</sup>
Maximum grain size:	0.5 mm
Storage and Duration :	12 months in the original closed package in a cool dry place
Inflammable:	No
Mixture ratio:	27%, 6.75 liters of water/25 kg bag
Mixture consistency:	Creamy
Density of paste:	1.65 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Open time:	30 minutes*
Vertical sliding to EN 1308:	< 0.5 mm
Maximum thickness application:	15 mm
Foot traffic after:	12 hours*
Full service:	7 days*
Final hardening:	28 days*
Deformability according EN 12004:	2.6 mm
Temperature resistance:	From -30° C to +90° C, at 23°C and 50% relative humidity



# High-performance adhesives for ceramic and stable natural stone laying

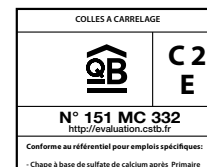
■ Company with certified quality system **ISO 9001**

## BENFERGRIP+

Special adhesive highly resistant, thixotropic, high strength and long open time

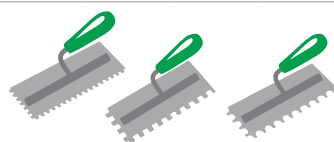


- Over tiling internal old floors
- Extra white
- High resistance to sliding
- Application without the need of spacers
- Perfect for glass and ceramic mosaics
- Perfect for Klinker and thick floor coverings
- Its smooth consistency reduces fatigue
- Long open time
- Tested in accordance with EN 12004, C2 TE
- Mixed with CEMLATEX 600 conforms to EN12004 C2 TE S2
- **FLEXIBLE**, deformability > 2 mm



Pot life: 3 hours\*  
Foot traffic after: 12 hours\*  
Consumption: 3.5-5 kg/m<sup>2</sup>  
EN 12004, C2 TE

*This product improvable with CEMLATEX 600, see table page 63*



Maximum length of longest tile side in cm\*\*

Int.floor	Ext.floor	Int. wall	Ext. wall
90	45	60	30

Art. n./Couleur

000011081 /  
Extra White

000011061 / Grey

Package/Pallet

25 kg bag/48 bags europallet

25 kg bag/48 bags europallet

\*\* For detailed information please refer to the Technical Product Data Sheet and the Adhesive selection guide table on pg.110



Hi-tech adhesive, extra-white, with no vertical sliding, frost-proof. Perfect for laying mosaic (glass, marble, porcelain), porcelain tiles and single-fired wall and floor tiles. Laying of thick floor coverings. High final resistances and extended open time.

## Fields of application:

Laying of porcelain, single fired and non-absorbent tiles, glass and ceramic mosaic, stable natural stones:

- for Interior and exterior walls and floors
- suitable for heavy duty areas (with CEMLATEX 600)
- private and public swimming pools (with CEMLATEX 600)



## Product Technical Data

Basis:	Cement, aggregates, additives
Colour:	Extra white and Grey
Apparent mass volume:	1.25 kg/dm <sup>3</sup>
Maximum grain size:	0.5 mm
Storage and Duration :	12 months in the original closed package in a cool dry place
Inflammable:	No
Mixture ratio:	31 %, 7.75 liters of water/25 kg bag
Mixture consistency:	Creamy
Density of paste:	1.60 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Pot life:	About 3 hours*
Open time:	30 minutes*
Vertical sliding to EN 1308:	< 0.5 mm
Maximum thickness:	15 mm
Foot traffic after :	12 hours*
Grouting:	12 hours*
Full service:	7 days*
Final hardening:	28 days*
Deformability according EN 12004:	2.0 mm
Temperature resistance:	From -30° C to +90° C
* at 23°C and 50% relative humidity	



# High-performance adhesives for ceramic and stable natural stone laying

■ Company with certified quality system **ISO 9001**

## BENFERGRIP C2TE

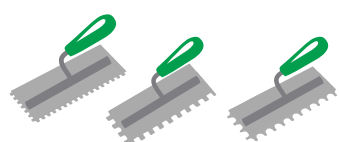
Special adhesive highly resistant



Pot life: 3 hours\*  
Foot traffic after 12 hours\*  
Consumption: 3.5 - 5 kg/m<sup>2</sup>  
EN 12004 C2TE

- Overlapping internal old floors
- Extra white
- High resistance to sliding
- Application without the need for spacers
- Perfect for glass and ceramic mosaics
- Perfect for Klinker and thick floor coverings
- Its smooth consistency reduces fatigue
- Long open time
- **FLEXIBLE, DEFORMABILITY > 1.8 mm**
- Mixed with CEMLATEX 600 conforms to EN 12004 C2 TE S2

*This product improvable with CEMLATEX 600, see table page 63*



Maximum length of longest tile side in cm\*\*

Int. floor	Ext. floor	Int. wall	Ext. wall
90	45	60	30

Art. no./Colour

Package/Pallet

000001170/  
Extra White

25 kg bag/60 bags pallet

000001172/Grey

25 kg bag/60 bags pallet

\*\* For detailed information please refer to the Technical Product Data Sheet and the Adhesive selection guide table on pg.110



BENFERGRIP C2TE is a highly thixotropic adhesive in powder consisting of highly resistant cement, selected granulometry quartz, synthetic resins and special new generation additives. Its formula was conceived and developed for rapid and safe installation of all ceramic materials, even from top to bottom • It has been formulated to develop high resistance to slippage when fixing wall tiles • Tiles can be fixed without spacers, and working from the top down • BENFERGRIP C2TE's special formula creates a thixotropic adhesive, which remains soft during mixing, spreading and tiling, but regains consistency immediately afterwards • BENFERGRIP C2TE has a long open time, which is indispensable in ensuring that the tile backs are properly wetted through the action of the special additives, and allowing its use in a softer state than traditional adhesives without loss of vertical bonding power

- BENFERGRIP C2TE white does not contain sand and therefore it is particularly suitable also for laying glass mosaic.

### Product Technical Data

Basis:	Cement, aggregates, additives
Colour:	Extra white and Grey
Apparent mass volume:	1.25 kg/dm <sup>3</sup>
Maximum grain size:	0.5 mm
Storage and Duration :	12 months in the original closed package in a cool dry place
Inflammable:	No
Mixture ratio:	31%, 7.75 liters of water/25 kg bag
Mixture consistency:	Creamy
Density of paste:	1.60 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Open time:	30 minutes*
Vertical sliding to EN 1308:	< 0.5 mm
Maximum thickness:	15 mm
Grouting:	12 hours*
Full service:	7 days*
Final hardening:	28 days*
Deformability according EN 12004:	1.8 mm
Temperature resistance:	From -30° C to +90° C
* at 23°C and 50% relative humidity	

## BENFERFIX C2TE

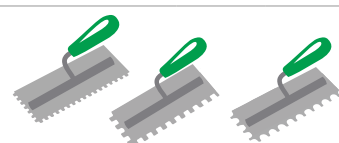
Super adhesive for large formats with an extended open time



Pot life: 3 hours\*  
Foot traffic after 12 hours\*  
Consumption: 3,5 - 5 kg/m<sup>2</sup>  
EN 12004 C2 TE

- High yield
- For interior and exterior use
- For floor and wall
- Ideal for porcelain stoneware
- **FLEXIBLE**

*This product improvable with CEMPLATEX 600, see table page 63*



Maximum length of longest tile side in cm\*\*

Int.floor	Ext.floor	Int. wall	Ext. wall
80	40	40	30

Art. no/Colour

Package/Pallet

24-01191-0025-22-M/  
White

25 kg bag/60 bags pallet

24-01191-0025-21-M/  
Grey

25 kg bag/60 bags pallet

\*\* For detailed information please refer to the Technical Product Data Sheet and the Adhesive selection guide table on pg.110



BENFERFIX C2TE is a highly thixotropic powder adhesive composed of high strength cement, quartz sands of a chosen grain size, synthetic resins and special new concept additives. Its formulation has been conceived and developed for installing all ceramic materials quickly and safely from the top downwards. Applications can be made with no need for spacers to support the tiles or for installing from the top downwards. BENFERFIX C2TE is endowed with a long open time that is essential in order to obtain a good wetting of the back of the tiles, making the most of the special components added to it and being able to use it with a softer consistency than normal glues without however affecting vertical bonding capacity.

### Product Technical Data

Basis:	Cement, aggregates, additives
Colour:	White and Grey
Apparent mass volume:	1.25 kg/dm <sup>3</sup>
Maximum grain size:	0.5 mm
Storage and Duration :	12 months in the original closed package in a cool dry place
Inflammable:	No
Mixture ratio:	29%, 7.25 liters of water/25 kg bag
Mixture consistency:	creamy
Density of paste:	1.60 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Pot life:	3 hours
Open time:	30 minutes*
Vertical sliding to EN 1308:	< 0,5 mm
Max thickness.:	15 mm
Foot traffic after:	12 hours*
Grouting:	12 hours*
Full service:	7 days*
Final hardening:	28 days*
Temperature resistance by:	-30°C to +90°C, *at 23°C and 50% relative humidity





# High-performance adhesives for ceramic and stable natural stone laying

■ Company with certified quality system **ISO 9001**

## BENFERFIX EXTRA

Cement based adhesive for ceramic tiles application, indoor and outdoor



Pot life: 3 hours\*  
Foot traffic after: 12 hours\*  
Consumption: 3.5 - 5 kg/m<sup>2</sup>  
EN 12004 C1 TE

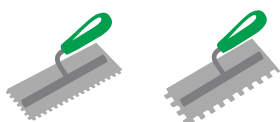
- Extended open time
- Excellent workability
- Also for porcelain stoneware up to 45x45
- + 40 years of applications

**Fields of application:** Interior and exterior laying of ceramic floor and wall tiles, marble and other natural stones of any type with side > 45 cm internal and 30 cm external.

*This product improvable with CEMLATEX 600, see table page 63*

**Mixed with CEMLATEX 600:**

- laying of floor and wall tiles in difficult environmental conditions such as: swimming-pools, cold rooms, terraces, surfaces exposed to the action of the water, etc.
- laying of heated floors



Art. no/Colour

Package/Pallet

Maximum length of longest tile side in cm\*\*

000001015/White  
000001045/Grey

25 kg bag/60 bags pallet  
25 kg bag/60 bags pallet

Int.floor	Ext.floor	Int. wall	Ext. wall
45	30	30	NO

\*\* For detailed information please refer to the Technical Product Data Sheet and the Adhesive selection guide table on pg.110



Cement based adhesive in white or grey with excellent workability and grip, for the interior and exterior application of ceramic floor and wall coverings. Its formula is the result of years of experience and guaranteed by thousands of applications in Italy and abroad, each year. Mixed with CEMLATEX 600, and once dry, it becomes the most indicated product for supporting the most severe stress in: swimming pools, cold rooms, prefabricated structures, heated floors, and floors that are subjected to heavy loads.

### Product Technical Data

Basis:	Cement, aggregates, additives
Colour:	White and Grey
Apparent mass volume:	1.20 kg/dm <sup>3</sup>
Maximum grain size:	0.5 mm
Storage and Duration :	12 months in the original closed package in a cool dry place
Inflammable:	No
Mixture ratio:	29 %, 7.25 liters of water/25 kg bag
Mixture consistency:	Doughy
Density of paste:	1.65 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Open time:	30 minutes*
Vertical sliding to EN 1308:	< 0.5 mm
Maximum thickness:	10 mm
Grouting:	12 hours*
Full service:	7 days*
Final hardening:	28 days*
Deformability according EN 12004:	1.4 mm
Temperature resistance:	From -30° C to +90° C
*at 23°C and 50% relative humidity	



## CEMLATEX 600

Synthetic latex for the preparation of mortars based on cement with high adhesive power



- Transforms a good adhesive into a superior quality adhesive
- Increases the field of application of adhesives
- Gives adhesives an extremely high flexibility
- Ideal for large size applications
- Gives very high adhesion and elasticity to cement-based mortars
- Permits long lasting concrete pouring
- Reduces the absorption of water



Consumption: see table



Remark: Versatile

Art. no/Colour  
000001505/White latex  
000001510/White latex  
000001509/White latex

Package/Pallet

5 kg cans/100 cans europalette  
1 kg bottle/12 bottles box  
25 kg can

### Dosage/Consumption:

As an additive for cement based adhesives:	from 2 to 5 kg of CEMLATEX 600 with 25 kg of powder adhesive
As an additive for cement mortars:	from 2 to 5 kg of CEMLATEX 600 for 25 kg of cement



CEMLATEX 600 is a polymeric dispersion to be used as an additive for cement-based mortars in order to improve their mechanical resistances, adhesion, elasticity, workability and impermeability. It is to be used as a partial replacement of the mixing water in quantities that may vary depending on the purposes of use and expected results.

### Product Technical Data

Aspect:	Polymeric latex
Colour:	White
Storage:	12 months, in the original closed package in a cool dry place
Inflammability:	No
pH:	10
Density:	1.05 kg/dm <sup>3</sup>
Viscosity:	8 m Pa.s at 23°C
Application temperature:	+ 5°C to + 35°C
Temperature resistance:	From - 30°C up to + 90°C
Consumption:	See table





Dosage CEMENTEX 600 to increase deformability of adhesives

ADHESIVE	CLASS	S 1		S 2	
		For every bag		For every bag	
		CEMLATEX 600 (kg)	ACQUA (kg)	CEMLATEX 600 (kg)	ACQUA (kg)
NORMAL SETTING					
BENFERFIX EXTRA	C1 TE	2.2	4.8	5.0	2.0
BENFERGRIP C2TE	C2 TE	2.0	5.5	5.0	2.5
BENFERGRIP+	C2 TE	2.0	5.5	5.0	2.5
BENFERFIX C2TE	C2 TE	2.0	5.0	5.0	2.0
BENFERFLEX+S1	C2 TE S1	-	8-10	4.0	4.0
FAST SETTING					
BENFERFLEX RAPIDO	C2 FTE S1	-	5.2	5.0	0.25



## BENFERJOLLY

### Epoxy-polyurethane flexible, two part adhesive



Pot life: 50 min\*  
Foot traffic on dry supports  
after: 12 hours\*  
Consumption: 2.5-5 kg/m<sup>2</sup>  
EN 12004 CLASSE R2T

- Floor and wall installation of marble, marble agglomerate and composite marble tiles, including low thickness tiles
- Interior floor and wall tiling exterior walls and floors in granite and natural stones, including on underfloor heating
- Tiling over existing internal ceramic or wood floors
- Tiling on steel substrates, which must first be sanded
- Tiling on gypsum and anhydrite substrates, without the preventative application of primer
- Suitable for swimming pool



Art. no/Colour

Package/Pallet

000001416/White

4,44 kg bucket/80 buckets europallet  
(4.0 Comp. A + 0.44 Comp. B)

Maximum length of longest tile  
side in cm\*\*

Int.floor	Ext.floor	Int. wall	Ext. wall
360	120	360	120

\*\* For detailed information please refer to the Technical Product Data Sheet and the Adhesive selection guide table on pg.110



A two part white adhesive consisting of epoxy-polyurethane resins, graded particle size aggregates and special additives. It has been formulated and developed for rapid, reliable installation of almost all marble, granite, natural stone, marble agglomerate and tiles in composite marble with polyester resins or cements, including on non-absorbent substrates or substrates subject to slight dimensional variation. A special waterless composition makes this product especially suitable where there is a need to avoid the risk of irreparable staining, not least on porous varieties of marble, and prevent the possible deformation of reconstituted marble tiles. For interior and exterior application.



## Product Technical Data

	Component A	Component B
Consistency:	Epoxy-polyurethane Paste	Thick liquid
Colour:	White	Straw yellow
Maximum grain size:	0.2 mm	
Storage:	12 months in the original pack if properly sealed	
Toxicity:	Harmful in contact with skin and irritating in contact with eyes and skin. May cause sensitization	Caustic and harmful in contact with skin, ingestion and inhalation. May cause sensitization
Inflammability:	No	
Mix ratio:	Component A / Component B 90:10	
Mixture consistency:	Creamy	
Apparent mass volume:	1.6 kg/dm <sup>3</sup>	
Application temperature:	From + 5°C to + 35°C	
Pot life:	50 minutes	
Open time:	About 120 minutes*	
Vertical sliding to EN 1308:	< 0.5 mm	
Maximum thickness:	15 mm	
Foot traffic after :	12 hours*	
Grouting:	12 hours*	
Full service:	3 days*	
Final hardening :	3 days*	
Shear Adhesion strength:	> 2.0 N/mm <sup>2</sup>	
Shear Adhesion strength after water immersion:	> 2.0 N/mm <sup>2</sup>	
Shear Adhesion strength after thermal shock:	> 2.0 N/mm <sup>2</sup>	
Deformability according EN 12004 :	> 5 mm	
Temperature resistance:	From - 30°C up to + 90°C	
* at 23°C and 50% relative humidity		

## POWERPLAST D2

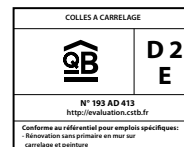
Ready to use adhesives for high performance, for internal walls



Foot traffic after: 24 hours\*  
Consumption: 3-5.5 kg/m<sup>2</sup>  
EN 12004, D2 TE

- Suitable for a wide range of substrates
- Ready to use
- Easy use for everyone
- Does not require professional equipment
- Wide selection of packages
- Tested in accordance with EN 12004, D2 TE

**Technical features:** Ready to use adhesives based on water dispersion, acrylic resins, mineral charges and additives, with good characteristics of elasticity and adhesion.



				No.art.	Package/Pallet
Maximum length of longest tile side in cm **				000001479	25 kg bucket/825 kg (33 buckets)
				000001478	15 kg bucket/660 kg (44 buckets)
Int.floor	Ext.floor	Int. wall	Ext. wall	000001477	8 kg bucket/720 kg (90 buckets)
NO	NO	45	NO	000001476	3 kg bucket/432 kg (144 buckets)

\*\* For detailed information please refer to the Technical Product Data Sheet and the Adhesive selection guide table on pg.112



### Fields of application:

Interior laying of wall ceramic tiles, natural stone (must be water stable), glass mosaics

- Laying of polystyrene boards, cork
- Suitable for damp areas

Product limits: the adhesive hardens by evaporation of its own water content therefore avoid laying non porous tiles on non-absorbent supports.



## Support

- Concrete
- Old ceramic tiles
- Cement-based plasters
- Gypsum-based plasters
- Gypsum-based boards
- Plasterboard standard or waterproofed
- Wooden boards
- Polystyrene boards (specific for tiling)
- Elastomeric waterproof membrane (ACQUASHIELD-READY)

## Product Technical Data

Basis:	Soft dough
Colour:	White
Storage and Duration :	24 months in the original closed package in a cool dry place
Inflammable:	No
Mixture ratio:	Ready to use
Mixture consistency:	Creamy
Density:	1.65 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Pot life:	30 minutes
Open time:	About 30 minutes*
Maximum thickness:	5 mm
Foot traffic after :	24 hours*
Grouting:	24 hours*
Full service:	7 days*
Final hardening:	14 days*
Shear adhesion strength resistance:	> 1.0 N/mm <sup>2</sup>
Shear adhesion strength after immersion in water:	> 0.5 N/mm <sup>2</sup>
Shear adhesion strength after thermal aging:	> 1.0 N/mm <sup>2</sup>
Shear adhesion strength after high temperature:	> 1.0 N/mm <sup>2</sup>
Temperature resistance:	From -30° C to +90° C
* at 23°C and 50% relative humidity	



# Wooden floor primer

■ Company with certified quality system **ISO 9001**

## ASOWOOD-Primer

### Solvent free consolidating and moisture barrier primer



Foot traffic after: 6-8 hours  
Consumption: 200-400 gr/m<sup>2</sup>

- It allows the laying of wooden floors on cement based screeds with residual moisture up to 5-6%
- Solvent free
- Single component, easy to use
- Application of the second layer after 3 - 4 hours



Art. no/Colour

Package/Pallet

Remark: Solvent free

000001471/Brown

10 kg can/ 76 cans europallet



ASOWOOD-Primer is used to prepare cement based screeds (residual moisture < 5-6%) and calcium sulphate screeds (after abrasion, residual moisture < 1%), for wooden floors application with ASOWOOD-2KPU e ASOWOOD-2K. It strengthens the screed and, mixed with QUARTZ (0.2-0.7 mm), is suitable for fast reparation works.

### Product Technical Data

Basis:	Polyurethane resin
Colour:	Brown
Viscosity (Ford):	50/60 seconds
Application temperature:	From + 15°C to + 30°C
Max. humidity of substrate:	5-6 %
Drying time:	45-55 minutes
Overcoat after:	120 minute, within 24 hours
Consumption:	150 g/m <sup>2</sup> for every coat
Storage & Shelf Life:	12 months when stored dry and cool place, above +10°C in the original unopened packaging

## ASOWOOD-2KPU

Special adhesive for all kind of wooden floors



Pot life: 60 min\*  
Foot traffic after: 3-4 days  
Consumption: 1 - 1.4 kg/m<sup>2</sup>

- 2 Components Epoxy-polyurethane
- Solvent free, Ecological
- Suitable for cement based and calcium sulphate based screeds, suitable for heated screeds
- Suitable for application on old non absorbing floors (Ceramic, marble, wooden floors)
- Easy to use



Art. no/Colour

Package/Pallet

Remark: Solvent free

000001472/Beige

10 kg bucket/80 buckets europallet



Special adhesive for the laying of wooden floors of every kind and dimension on cement based screed (residual moisture < 2%) and calcium sulphate based screed (residual moisture < 0.5%), even heated.

The application on screeds with higher residual moisture level is possible after the screed treatment with ASOWOOD-Primer.

### Product Technical Data

Basis:	Epoxy-polyurethane resin
Colour:	Beige
Viscosity (Brookfield):	70.000-90.000 mPa.s
Application temperature:	From + 10°C to + 30°C
Open time:	90-120 minutes
Foot traffic after:	12-18 hours
Final hardening after:	18-24 hours
Cutting traction resistance (DIN 281):	5 N/mm <sup>2</sup>
Adhesion to wood-concrete:	> 3 N/mm <sup>2</sup>
Hardness Shore A:	> 80
Storage & Shelf Life:	12 months when stored dry and cool place above +10°C in the original unopened packaging

\* at 23°C and 50% relative humidity

# Wooden floor adhesives

■ Company with certified quality system **ISO 9001**

## ASOWOOD-2K

Two components adhesive for wooden floors



Pot life: 120 min\*  
Foot traffic after: approx 1-2 days\*  
Consumption: 1 - 1.4 kg/m<sup>2</sup>

- 2 Components Epoxy-polyurethane
- Suitable for cement based and calcium sulphate based screeds, suitable for heated screeds
- Suitable for application on old non absorbing floors (ceramic, marble, wooden floors)
- Easy to use



Art. no/Colour

Package/Pallet

Remark: Easy to use

000001473/Beige

10 kg bucket/80 buckets europallet



Specific water-free 2 components epoxy-polyurethane adhesive for the laying of wooden floors of every kind and dimension on cement based screeds or on nonabsorbing floors (marble, tiles, flagstones, wood surfaces).

The application on cement based screed with residual moisture < 2% and on calcium sulphate based screed with residual moisture < 0.5% can be done directly, the application on screeds with higher residual moisture level is possible after the screed treatment with ASOWOOD-Primer.

### Product Technical Data

Basis:	Epoxy-polyurethane resin
Colour:	Beige
Viscosity:	70.000-90.000
Application temperature:	From + 10°C to + 30°C
Open time:	90-120 minutes
Foot traffic after:	12-18 hours
Final hardening after:	48-72 hours
Cutting traction resistance (DIN 281):	5.9 N/mm <sup>2</sup>
Adhesion to wood-concrete:	> 3 N/mm <sup>2</sup>
Hardness Shore A:	90
Storage & Shelf Life:	12 months, stored in dry and cool place above +10°C in the original unopened packaging

\* at 23°C and 50% relative humidity





# Cement based joint mortars

■ Company with certified quality system **ISO 9001**

## DEKOGROUT+

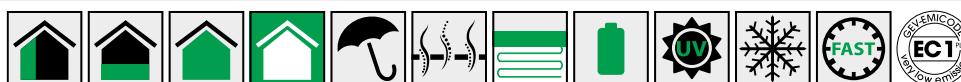
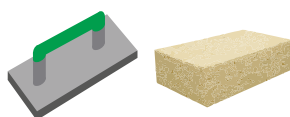
Multi function grout, ideal for big formats. Excellent for porcelain, natural or synthetic stone



Pot life: 45 min\*  
Foot traffic after 6 hours\*  
Consumption: see table  
EN 13888 CG2 WA

- + Nice: smooth, compact surface
- + Durable: easy to clean and resistant to chemical and mechanical stress
- + Healthy : certified EC1 with low emission of volatile organic substances
- + Water repellent, resistant to mould and bacteria
- + Versatile: for internal and external use and for surfaces subject to continuous immersion
- + Quick and easy to apply: long life paste (45'), but practicable in 6 hours

For joints up to 10 mm width, perfect for rectified tiles. For floors and walls with heating systems. Colours matched to the DEKOSIL silicone system.  
Fulfils the requirements of EN 13888, CG2WA.



Art. no/Colour

Package

Remark: Multifunctional and easy to apply


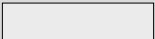
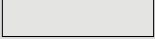

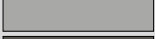








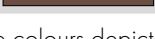
see table

2.5 kg bag/4 bags x 2.5 kg

**Technical features:** DEKOGROUT+ is a special rapid hardening hybrid powder grout made from cement, high tech polymers, aggregates with selected granulometry and special additives; ideal for grouting ceramic floors and walls of every kind, on a great variety of different supports, possessing exceptional waterproofing capabilities and resistance to chemical and mechanical aggression agents. Formulated to harden quickly with no shrinkage, it is suitable for grouting even delicate natural stone products otherwise subject to discoloration or dimensional variations. DEKOGROUT+ is more resistant to stains, mould and bacteria and guarantees a superior appearance, resistance to aging and cleaning of joints. DEKOGROUT+ is available in 15 colors.

**Fields of application:** can be used for joints in interior and exterior areas, for vitrified mosaics, every type and format of ceramic tiles and natural stone, even that subject to dimensional variations and discoloration. DEKOGROUT+ can be used for joints up to 10 mm in bathrooms, showers, terraces, rooms, balconies and patios, as well as facades, swimming pools, commercial areas, on floating and heated screeds, everywhere you wish to cover with superior beauty, durability, hygiene and cleaning characteristics.



DEKOGROUT+ Colours			
Colour	Art. no.	Colour	Package/4 bags
	000002500	Bianco	4 bags x 2.5 kg
	000002501	Grigio argento	4 bags x 2.5 kg
	000002502	Manhattan	4 bags x 2.5 kg
	000002503	Grigio chiaro 7035	4 bags x 2.5 kg
	000002504	Grigio 7042	4 bags x 2.5 kg
	000002505	Antracite 7037	4 bags x 2.5 kg
	000002506	Jasmine	4 bags x 2.5 kg
	000002507	Off White	4 bags x 2.5 kg
	000002508	Beige	4 bags x 2.5 kg
	000002509	Travertino	4 bags x 2.5 kg
	000002510	Camel	4 bags x 2.5 kg
	000002514	Nocciola	4 bags x 2.5 kg
	000002513	Caramello	4 bags x 2.5 kg
	000002511	Tabacco	4 bags x 2.5 kg
	000002512	Marrone	4 bags x 2.5 kg

N.B. The colours depicted in this chart are reproduced as realistically as possible but are only indicative. They must be verified by the end user who assumes all responsibility deriving from product use

DEKOGROUT+ Consumption Kg per 10 m <sup>2</sup> of tiled surface								
Width (cm)	Length (cm)	Thickness (cm)	Width of the joint (cm)					
			0.1	0.2	0.3	0.5	0.7	1
2.5	2.5	0.2	2.32	4.63	6.95	11.58	16.21	23.15
10	10	0.6	1.74	3.47	5.21	8.68	12.15	17.36
30	30	1.0	0.96	1.93	2.89	4.82	6.75	9.65
30	60	1.0	0.72	1.45	2.17	3.62	5.06	7.24
60	60	1.0	0.48	0.96	1.45	2.41	3.38	4.82
15	90	1.0	1.13	2.25	3.38	5.63	7.88	11.25
60	120	1.0	0.36	0.72	1.09	1.81	2.53	3.62
80	80	0.6	0.22	0.43	0.65	1.09	1.52	2.17
100	100	0.4	0.10	0.20	0.30	0.51	0.71	1.01
100	300	0.6	0.12	0.23	0.35	0.58	0.81	1.16
160	320	1.2	0.16	0.23	0.49	0.81	1.14	1.63

## Product Technical Data

Basis:	Special cements , mineral aggregates, new generation of additives
Apparent mass volume:	1.20 kg/dm <sup>3</sup>
Inflammable:	No
Mixture ratio:	22-24% of water equivalent to 0.55-0.60 liters of water for 2.5 kg bag
Mixing time:	2-3 minutes (mixer . 300 - 500 r/min)
Consistency of paste:	Thixotropic mortar
Mass volume of paste:	1.80 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Foot traffic after:	After 6 hours
Full service:	After 24 hours
Final hardening:	After 7 days
Fulfills the requirements of:	EN 13888 CG2WA
Humidity resistance:	Excellent
Aging process resistance:	Excellent
Temperature resistance:	From -30° C to +90° C
Storage and Duration :	18 months in a dry place, in the original closed package; open bags must be closed again and used as soon as possible,
*at 23°C and 50% relative humidity	

For more information see the valid technical data sheet and safety sheets of the product and watch the video application on [www.benfer.it](http://www.benfer.it)



## DEKOGROUT

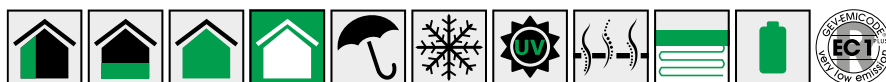
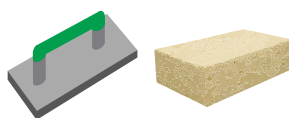
Antibacterial, flexible, smooth cement-based grout



Pot life: approx. 30 min at 23°C  
Foot traffic after: approx. 24 hours  
Consumption: see table  
EN 13888 CG2WA

- Antibacterial and mould resistant
- Water repellent
- Resistant to freeze/thaw cycles
- Good application and wash-off properties
- Smooth surface and wide colour range (26 colours)
- For interior, exterior and under water
- Fulfils the requirements of EN 13888, CG2WA
- For joints from 1 - 6 mm wide
- Vapor permeable
- Suitable for heated floors and walls
- EC1: very low emission
- Colours matched to the DEKOSIL silicone system

DEKOGROUT is suitable for grouting glass mosaic, vitrified and fully vitrified clay tiles, brick tiles, tile slips, floor clinkers in bathrooms, showers and living rooms, on terraces, balconies and loggia. As well as facades, in swimming pools, commercial areas, and on heated and flow screeds. Furthermore DEKOGROUT is suitable for grouting of natural stones, if the product-specific properties of the natural stone material permit this and discolouration (i.e. through stones physical characteristics) can be eliminated. We recommend DEKOGROUT+ for the grouting of natural stones.



Art. no/Colour

Package

Remark: Antibacterial and mould resistant

see table




see table



## DEKOGROUT - Consumption -

DEKOGROUT for joints from 1 up to 6 mm  
Coverage: kg per 10 m<sup>2</sup> of tiled surface

Size of the tile (cm)	Thickness (cm)	Width of the joint (mm)					
		1	2	3	4	5	6
1 x 1	0.3	8.5	17.0				
2 x 2	0.4	5.3	10.6				
2.5 x 2.5	0.4	4.3	8.5	12.8			
2.5 x 2.5	1.0	10.9	21.9	32.8			
5 x 5	0.4	2.4	4.9	7.3	9.7	12.2	14.6
10 x 10	1.0	3.0	6.1	9.1	12.2	15.2	18.2
10 x 10	0.6	1.8	3.6	5.5	7.3	9.1	10.9
12.5 x 12.5	1.0	2.4	4.9	7.3	9.7	12.2	14.6
10 x 20	0.8	1.8	3.6	5.5	7.3	9.1	10.9
15 x 15	1.4	3.0	6.0	8.9	11.9	14.9	17.9
15 x 15	0.8	1.7	3.4	5.1	6.8	8.5	10.2
24 x 11.5	1.2	2.6	5.1	7.7	10.2	12.8	15.3
24 x 11.5	2.0	4.3	8.5	12.8	17.0	21.3	25.5
20 x 20	1.4	2.1	4.3	6.4	8.5	10.6	12.8
20 x 20	0.8	1.2	2.4	3.6	4.9	6.1	7.3
20 x 25	0.8	1.1	2.2	3.3	4.4	5.5	6.6
25 x 25	1.0	1.2	2.4	3.6	4.9	6.1	7.3
25 x 33	1.0	1.2	2.4	3.6	4.9	6.1	7.3
30 x 30	1.5	1.8	3.6	5.5	7.3	9.1	10.9
30 x 30	0.8	1.0	1.9	2.9	3.9	4.9	5.8
30 x 5	1.0	3.6	7.3	10.9	14.6	18.2	21.9
33 x 33	0.8	1.0	1.9	2.9	3.9	4.9	5.8
40 x 40	1.0	0.9	1.8	2.7	3.6	4.6	5.5
30 x 60	1.0	0.9	1.8	2.7	3.6	4.6	5.5
60 x 60	1.0	0.6	1.2	1.8	2.4	3.0	3.6

DEKOGROUT colours					
Colour	Art. no.	Colour	Code	Package	Package/Europallet
	000005900	Bianco	Bianco	5 kg bag	4 bags box/27 boxes
	000005902	Bianco	Bianco	20 kg bag	63 bags / Europallet
	000005904	Manhattan	Manhattan	5 kg bag	4 bags box/27 boxes
	000006040	Grigio chiaro	7035	5 kg bag	4 bags box/27 boxes
	000006042	Grigio chiaro	7035	20 kg bag	63 bags / Europallet
	000006030	Grigio	7042	5 kg bag	4 bags box/27 boxes
	000006032	Grigio	7042	20 kg bag	63 bags / Europallet
	000006020	Grigio tortora	Grigio tortora	5 kg bag	4 bags box/27 boxes
	000006022	Grigio tortora	Grigio tortora	20 kg bag	63 bags / Europallet
	000005910	Grigio cemento	7030	5 kg bag	4 bags box/27 boxes
	000005912	Grigio cemento	7030	20 kg bag	63 bags / Europallet
	000005980	Antracite	7037	5 kg bag	4 bags box/27 boxes
	000005982	Antracite	7037	20 kg bag	63 bags / Europallet
	000005970	Nero	9004	5 kg bag	4 bags box/27 boxes
	000005920	Off white	Off white	5 kg bag	4 bags box/27 boxes
	000005930	Crema marfil	9001	5 kg bag	4 bags box/27 boxes
	000005940	Travertino	Travertino	5 kg bag	4 bags box/27 boxes
	000005960	Beige	1013	5 kg bag	4 bags box/27 boxes
	000005950	Camel	1001	5 kg bag	4 bags box/27 boxes
	000006136	Nocciola	Nocciola	5 kg bag	4 bags box/27 boxes
	000006134	Caramello	Caramello	5 kg bag	4 bags box/27 boxes
	000006010	Tabacco	8007	5 kg bag	4 bags box/27 boxes
	000006000	Marrone	8011	5 kg bag	4 bags box/27 boxes
	000005990	Testa di moro	8017	5 kg bag	4 bags box/27 boxes
	000006050	Giallo	1012	5 kg bag	4 bags box/27 boxes
	000006060	Verde	6019	5 kg bag	4 bags box/27 boxes
	000006070	Smeraldo	6024	5 kg bag	4 bags box/27 boxes
	000006080	Crocus	Crocus	5 kg bag	4 bags box/27 boxes
	000006090	Azzurro	5012	5 kg bag	4 bags box/27 boxes
	000006100	Blu	5013	5 kg bag	4 bags box/27 boxes
	000006120	Rosa	3014	5 kg bag	4 bags box/27 boxes
	000006130	Rosso maranello	3003	5 kg bag	4 bags box/27 boxes

N.B. The colours depicted in this chart are reproduced as realistically as possible but are only indicative. They must be verified by the end user who assumes all responsibility deriving from product use

#### Product Technical Data

Basis:	Cement , mineral aggregates, new generation of additives and pigments
Apparent mass volume:	1.20 kg/dm <sup>3</sup>
Inflammable:	No
Mixture ratio:	27% of water equivalent to 1.3-1.4 liters of water for 5 kg bag
Mixing time:	2-3 minutes (mixer : 300 - 500 r/min)
Consistency of paste:	Creamy mortar
Mass volume of paste:	1.90 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°
Largeness of application:	From 1 mm to 6 mm
Full service after:	3 day
Final hardening:	14 days
Aging process resistance:	Excellent
Storage and Duration:	24 months (5kg alluminium bag)/12 months (20kg paper bag), in a dry place, in the original closed package; open bags must be closed again and used as soon as possible.



# Cement based joint mortars

■ Company with certified quality system **ISO 9001**

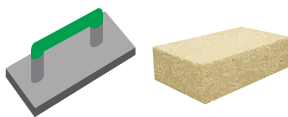
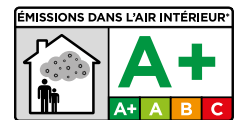
## DEKOGROUT 2/12

Antibacterial, flexible, cement-based grout



Pot life: Approx. 30 min at 23°C  
Foot traffic after: Circa 4 hours  
Consumption: see table  
EN 13888 CG2WA

- Antibacterial and mould resistant
- Water repellent
- Resistant to freeze/thaw cycles
- Good application and wash-off properties
- For interior, exterior and under water
- Fulfils the requirements of EN 13888, CG2WA
- For joints from 2-12 mm wide
- Vapor permeable
- Suitable for heated floors and walls
- EC1: very low emission
- Colours matched to the DEKOSIL silicone system



Art. no./Colour

Package

Remark: Antibacterial and mould resistant

see table

see table







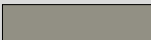

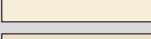
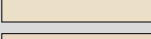
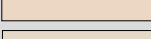
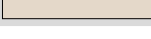
Special flexible grout with rapid setting, for joints from 2 to 12 mm in wide. DEKOGROUT 2/12 grouts are composed of special cements, aggregates with a choice of granulometry and additives, it was designed to harden rapidly with minimum shrinkage to provide elevated mechanical resistance, good flexibility and minimum water absorption united with an attractive aesthetic appearance. They are available in various colors.

### Product Technical Data

Basis:	Cement, mineral aggregates, high quality additives and pigments
Colors:	10 colors (see table)
Apparent mass volume:	1.3 kg/dm <sup>3</sup>
Maximum grain size:	0.3 mm
Inflammable:	No
Mixture ratio:	22-23% of water equivalent of 1.1-1.15 liters of water for 5 kg bag
Mixing time:	2-3 minutes (mixer 300 - 500 r/min)
Consistency of paste:	Creamy mortar
Mass volume of paste:	2.00 kg/dm <sup>3</sup>
Largeness of application:	From 2 to 12 mm
Full service:	After 1 days
Final hardening:	After 14 days
Humidity resistance:	Excellent
Aging process resistance:	Excellent
Temperature resistance:	From -30° C to +90° C
Storage and Duration :	24 months (5kg alluminium bag)/12 months (25kg paper bag), in a dry place, in the original closed package; open bags must be closed again and used as soon as possible.



## DEKOGROUT 2/12 - Colours

Colour	Art. no.	Colour	Code	Package	Package/Europallet
	000006150	Bianco	Bianco	5 kg bag	4 bags box/27 boxes
	000006170	Bianco	Bianco	25 kg bag	48 bags / europallet
	000006152	Grigio chiaro	7035	5 kg bag	4 bags box/27 boxes
	000006172	Grigio chiaro	7035	25 kg bag	48 bags / europallet
	000006154	Grigio	7042	5 kg bag	4 bags box/27 boxes
	000006174	Grigio	7042	25 kg bag	48 bags / europallet
	000006156	Grigio tortora	Grigio tortora	5 kg bag	4 bags box/27 boxes
	000006176	Grigio tortora	Grigio tortora	25 kg bag	48 bags / europallet
	000006158	Grigio cemento	7030	5 kg bag	4 bags box/27 boxes
	000006178	Grigio cemento	7030	25 kg bag	48 bags / europallet
	000006160	Antracite	7037	5 kg bag	4 bags box/27 boxes
	000006180	Antracite	7037	25 kg bag	48 bags / europallet
	000006162	Off white	Off white	5 kg bag	4 bags box/27 boxes
	000006164	Crema marfil	9001	5 kg bag	4 bags box/27 boxes
	000006166	Travertino	Travertino	5 kg bag	4 bags box/27 boxes
	000006168	Beige	1013	5 kg bag	4 bags box/27 boxes

N.B. The colours depicted in this chart are reproduced as realistically as possible but are only indicative. They must be verified by the end user who assumes all responsibility deriving from product use

## DEKOGROUT 2/12 - Coverage table-

DEKOGROUT for joints from 2 up to 12 mm. Coverage: kg per 10 m<sup>2</sup> of tiled surface

Size of the tile (cm)	Thickness (cm)	Width of the joint (mm)							
		2	3	4	5	7	10	12	
2 x 2	0.4	10.5	15.0	19.5	24.0	33.5	47.0	56.0	
5 x 5	0.4	7.0	9.5	12.0	14.5	19.5	27.5	32.5	
10 x 10	1.0	8.0	11.0	14.5	18.0	24.0	34.0	40.5	
10 x 10	0.6	5.5	7.5	9.5	11.0	15.0	21.0	25.0	
12.5 x 12.5	1.0	7.0	9.5	12.0	14.5	19.5	27.5	32.5	
10 x 20	0.8	5.5	7.5	9.5	11.0	15.0	21.0	25.0	
15 x 15	1.4	8.0	11.0	14.0	17.5	24.0	33.5	39.5	
15 x 15	0.8	5.0	7.0	9.0	10.5	14.0	19.5	23.5	
20 x 20	0.8	6.0	8.5	10.5	13.0	17.5	24.0	29.0	
20 x 20	0.4	4.0	5.5	7.0	8.0	10.5	14.5	17.0	
25 x 25	1.0	4.0	5.5	7.0	8.0	10.5	14.5	17.0	
25 x 35	1.0	4.0	5.5	7.0	8.0	10.5	14.5	17.0	
30 x 30	1.4	5.0	7.0	9.0	10.5	14.0	19.5	23.5	
30 x 30	0.8	3.5	4.5	5.5	7.0	9.0	12.0	14.0	
35 x 35	0.8	3.5	4.5	5.5	7.0	9.0	12.0	14.0	
40 x 40	1.0	3.5	4.5	5.5	6.5	8.5	11.0	13.0	
30 x 60	1.0	3.5	4.5	5.5	6.5	8.5	11.0	13.0	
60 x 60	1.0	3.0	3.5	4.0	5.0	6.0	8.0	9.5	

# Cement based joint mortars

■ Company with certified quality system **ISO 9001**

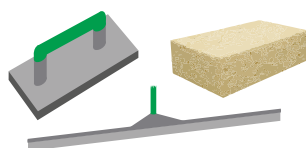
## DEKOGROUT-HF 1/30

High strength, flexible cement-based grout



Pot life: 90 min at + 23°C  
Foot traffic after: Approx. 6 hours  
Consumption: see table  
EN 13888 CG2WA

- High strength, cement-based grout
- Increased abrasion resistance
- Water repellent
- Resistant to freeze/thaw cycles
- Mould resistant
- For interior, exterior and under water
- Fulfils the requirements of EN 13888, CG2WA
- For joints from 3 - 30 mm wide
- Vapour permeable
- Good application and wash-off properties
- Suitable for floor and wall heating
- Colourways matched to the DEKOSIL silicone system



Art. no./Colour

Package

Remark: Increased abrasion resistance

see table

25 kg bag/42 bags europallet



Due to its high mechanical performance and abrasion resistance, DEKOGROUT-HF 1/30 is especially suitable for grouting tiles in swimming pools, washing plants, commercial kitchens, sales rooms, commercial areas, industrial areas and workshops. Furthermore, DEKOGROUT-HF 1/30 can be used on heated and flow screeds in bathrooms, showers and living rooms, on terraces, balconies and loggias as well as facades. DEKOGROUT-HF 1/30 can be used in heavy-duty areas e.g. where cleaning equipment, high pressure steam cleaning or scouring vacuums are present. Furthermore, the dense grout joints give increased resistance to cleaning chemicals. Neutral or alkaline cleaners can be used unrestrictedly. DEKOGROUT-HF 1/30 has increased resistance to acidic cleaners.

### Product Technical Data

Basis:	Cement, mineral aggregates, high quality additives and pigments
Apparent mass volume:	1.4 kg/dm <sup>3</sup>
Maximum grain size:	0.5 mm
Inflammable:	No
Mixture ratio:	16-18% of water equivalent to 3.9-4.5 liters of water per 25 kg bag
Mixing time:	2-3 minutes (mixer . 300 - 500 r/min)
Consistency of paste:	Fluid mortar
Mass volume of paste:	2.1 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°
Largeness of application:	From 3 to 30 mm
Foot traffic after:	After 6 hours
Full service:	After 1 day
Final hardening:	After 7 days
Humidity resistance:	Excellent
Aging process resistance:	Excellent
Resistance to compression after 28 days:	50 N/mm <sup>2</sup>
Resistance to flexion after 28 days:	9 N/mm <sup>2</sup>
Temperature resistance:	From -30° C to +90° C
Storage and Duration :	12 months in a dry place, in the original closed package; open bags must be closed again and used as soon as possible.



Colour	Art. no.	Colour	Code	Package	Package/Europallet
	000012039	Off white	Off white	25 kg bag	42 bags/europallet
	000012037	Beige	1013	25 kg bag	42 bags/europallet
	000012035	Travertino	Travertino	25 kg bag	42 bags/europallet
	000012031	Grigio cemento	7030	25 kg bag	42 bags/europallet
	000012033	Grigio chiaro	7035	25 kg bag	42 bags/europallet

N.B. The colours depicted in this chart are reproduced as realistically as possible but are only indicative. They must be verified by the end user who assumes all responsibility deriving from product use

DEKOGROUT-HF 1/30 - Consumption								
Size of the tile (cm)	Thickness (cm)	Join depth (cm) Consumption kg per 10 m <sup>2</sup>						
		0.3	0.4	0.5	0.8	1	1.5	2
20 x 20	0.4	2.29	3.06	3.82	6.11	7.64	11.46	15.28
30 x 30	1.0	3.82	5.09	6.37	10.19	12.73	19.10	24.47
24 x 11.5	1.0	7.37	9.83	12.28	19.65	24.57	36.85	49.13
30 x 60	1.0	2.87	3.82	4.78	7.64	9.55	14.33	19.10
45 x 45	1.0	2.55	3.40	4.24	6.79	8.49	12.73	16.98
60 x 60	1.0	1.91	2.55	3.18	5.09	6.37	9.55	12.73
60 x 60	2.0	3.82	5.09	6.37	10.19	12.73	19.10	25.47
45 x 90	2.0	3.82	5.09	6.37	10.19	12.73	19.10	25.47



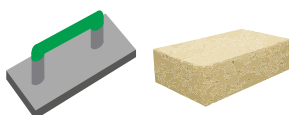
## PRIMAFUGA 0/5

Sealer for joints from 0 to 5 mm wide



Pot life: 1 hour at 23°C  
Foot traffic after: 24 hours  
Consumption: see table  
EN13888 CG2

- Grouting of joints between ceramic floor and wall tiles of all types and sizes, both indoors and outdoors
- By adding CEMLATEX GIUNTI, the product is recommended for grouting joints in: systems subject to slight dimensional variations, heated floors, tiled areas subject to adverse environmental conditions, such as swimming pools, cold rooms, terraces, and surfaces with a high degree of exposure to water, flooring in areas subject to intense traffic, such as supermarkets, motorway service stations, shopping centres, and public premises in general, old flooring with deteriorated joints. Special grout for ceramic floor and wall coverings it is composed of cement, aggregates with a choice of granulometry and additives. It was designed to harden rapidly with minimum shrinkage to provide elevated mechanical resistance united with an attractive aesthetic appearance. For the filling of joints from 0 to 5 millimeters in width. Available in 20 colors. For interiors and exteriors.



Art. no./Colour

Package

Remark: Floor and wall, inside and outside

see table

see table







For perfect grouting of joints, the mortar used for fixing the tiles must be sufficiently dry to prevent any residual humidity from evaporating and creating unevenness in the colour of the grouting compound. If a specific cement-based adhesive has been used, grouting can be carried out after just 24 hours for wall tiling and 1-2 days for floor tiling. If the substrate is already completely dry, when working with absorbent tiles, especially in high temperatures, it is advisable to moisten the joints to be filled, slightly and evenly. The joints must also be free from dust or other materials that may adversely affect adhesion. If it is considered essential to fix twice-fired wall tiles in contact with each other (i.e. without any joint at all), it is vital to clean the grouting compound with a damp sponge and moisten it again with the same system and more water the following day. If this precaution is not taken, PRIMAFUGA 0-5 may fail to harden sufficiently, because by the time that the cement starts to set (after about 4 hours), much of the water in the mix will have been absorbed by the tiles.

### Product Technical Data

Basis:	Cement , mineral aggregates, high quality additives and pigments
Apparent mass volume:	1.2 kg/dm <sup>3</sup>
Maximum grain size:	0.2 mm
Inflammable:	No
Mixture ratio:	30% of water equivalent of 1.5 liters of water for 5 kg bag
Mixing time:	2-3 minutes (mixer . 300 - 500 r/min)
Consistency of paste:	Creamy mortar
Application temperature:	From + 5°C to + 35°
Largeness of application :	From 0 to 5 mm
Full service:	After 2 days
Humidity resistance:	Excellent
Aging process resistance:	Excellent
Storage and Duration :	12 months in a dry place, in the original closed package; open bags must be closed again and used as soon as possible.

**PRIMAFUGA 0/5 Colours**

Colour	Art. no.	Colour	Code	Package	Package/Pallet
	000001200	Bianco	01 Bianco	5 kg bag	24 boxes pallet (5 bags/box)
	000001250	Bianco	01 Bianco	20 kg bag	63 bags/pallet
	000001215	Grigio chiaro	02 Grigio chiaro	5 kg bag	24 boxes pallet (5 bags/box)
	000001265	Grigio chiaro	02 Grigio chiaro	20 kg bag	63 bags/pallet
	000001220	Grigio	03 Grigio	5 kg bag	24 boxes pallet (5 bags/box)
	000001270	Grigio	03 Grigio	20 kg bag	63 bags/pallet
	000001233	Antracite	04 Antracite	5 kg bag	24 boxes pallet (5 bags/box)
	000001235	Nero	05 Nero	5 kg bag	24 boxes pallet (5 bags/box)
	000001202	Off white	06 Off white	5 kg bag	24 boxes pallet (5 bags/box)
	000001248	Crema marfil	19 Crema marfil	5 kg bag	24 boxes pallet (5 bags/box)
	000001249	Travertino	20 Travertino	5 kg bag	24 boxes pallet (5 bags/box)
	000001205	Beige	07 Beige	5 kg bag	24 boxes pallet (5 bags/box)
	000001243	Camel	09 Camel	5 kg bag	24 boxes pallet (5 bags/box)
	000001225	Tabacco	10 Tabacco	5 kg bag	24 boxes pallet (5 bags/box)
	000001230	Marrone	11 Marrone	5 kg bag	24 boxes pallet (5 bags/box)
	000002248	Giallo	08 Giallo	5 kg bag	24 boxes pallet (5 bags/box)
	000001223	Verde	12 Verde	5 kg bag	24 boxes pallet (5 bags/box)
	000001238	Crocus	13 Crocus	5 kg bag	24 boxes pallet (5 bags/box)
	000001245	Azzuro	14 Azzuro	5 kg bag	24 boxes pallet (5 bags/box)
	000001247	Blu	15 Blu	5 kg bag	24 boxes pallet (5 bags/box)
	000001240	Magnolia	16 Magnolia	5 kg bag	24 boxes pallet (5 bags/box)
	000001214	Rosa	17 Rosa	5 kg bag	24 boxes pallet (5 bags/box)
	000001210	Rosso	18 Rosso	5 kg bag	24 boxes pallet (5 bags/box)

N.B. The colours depicted in this chart are reproduced as realistically as possible but are only indicative. They must be verified by the end user who assumes all responsibility deriving from product use.

**PRIMAFUGA 0/5 - Coverage table -**

Grout PRIMAFUGA for joint from 0 up to 5 mm. Coverage: kg per 10 m<sup>2</sup> of tiled surface

Size of the tile (cm)	Thickness (cm)	Width of the joint (mm)				
		1	2	3	4	5
2 x 2	0.4	5.3	10.6			
2.5 x 2.5	0.4	4.3	8.5	12.8		
2.5 x 2.5	1.0	10.9	21.9	32.8		
5 x 5	0.4	2.4	4.9	7.3	9.7	12.2
10 x 10	1.0	3.0	6.1	9.1	12.2	15.2
10 x 10	0.6	1.8	3.6	5.5	7.3	9.1
12.5 x 12.5	1.0	2.4	4.9	7.3	9.7	12.2
10 x 20	0.8	1.8	3.6	5.5	7.3	9.1
15 x 15	1.4	3.0	6.0	8.9	11.9	14.9
15 x 15	0.8	1.7	3.4	5.1	6.8	8.5
24 x 11.5	1.2	2.6	5.1	7.7	10.2	12.8
24 x 11.5	2.0	4.3	8.5	12.8	17.0	21.3
20 x 20	1.4	2.1	4.3	6.4	8.5	10.6
20 x 20	0.8	1.2	2.4	3.6	4.9	6.1
20 x 25	0.8	1.1	2.2	3.3	4.4	5.5
25 x 25	1.0	1.2	2.4	3.6	4.9	6.1
25 x 33	1.0	1.2	2.4	3.6	4.9	6.1
30 x 30	1.5	1.8	3.6	5.5	7.3	9.1
30 x 30	0.8	1.0	1.9	2.9	3.9	4.9
30 x 5	1.0	3.6	7.3	10.9	14.6	18.2
33 x 33	0.8	1.0	1.9	2.9	3.9	4.9
40 x 40	1.0	0.9	1.8	2.7	3.6	4.6
30 x 60	1.0	0.9	1.8	2.7	3.6	4.6
60 x 60	1.0	0.6	1.2	1.8	2.4	3.0

## CEMLATEX GIUNTI

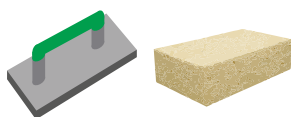
### Latex for PRIMAFUGA sealer



Consumption: Substitution of water in mixture  
EN 13888 CG2WA

Its characteristics united with those of Benfer PRIMAFUGA brilliant solutions to joint filling problems in:

- systems that are subject to slight dimensional variations
- heated floors
- wall and floor coverings subject to harsh environmental conditions such as swimming pools, walk-in refrigerators, terraces and surfaces very exposed to water
- floors located in heavily trafficked areas such as supermarkets, highway rest stops, malls, and public places in general
- old floors with deteriorated joints



Art. no/Colour

Package/Pallet

Remark: Improves performance

000001530/White  
000001540/White

5 kg cans/100 cans pallet  
1 kg pot/12 pots box

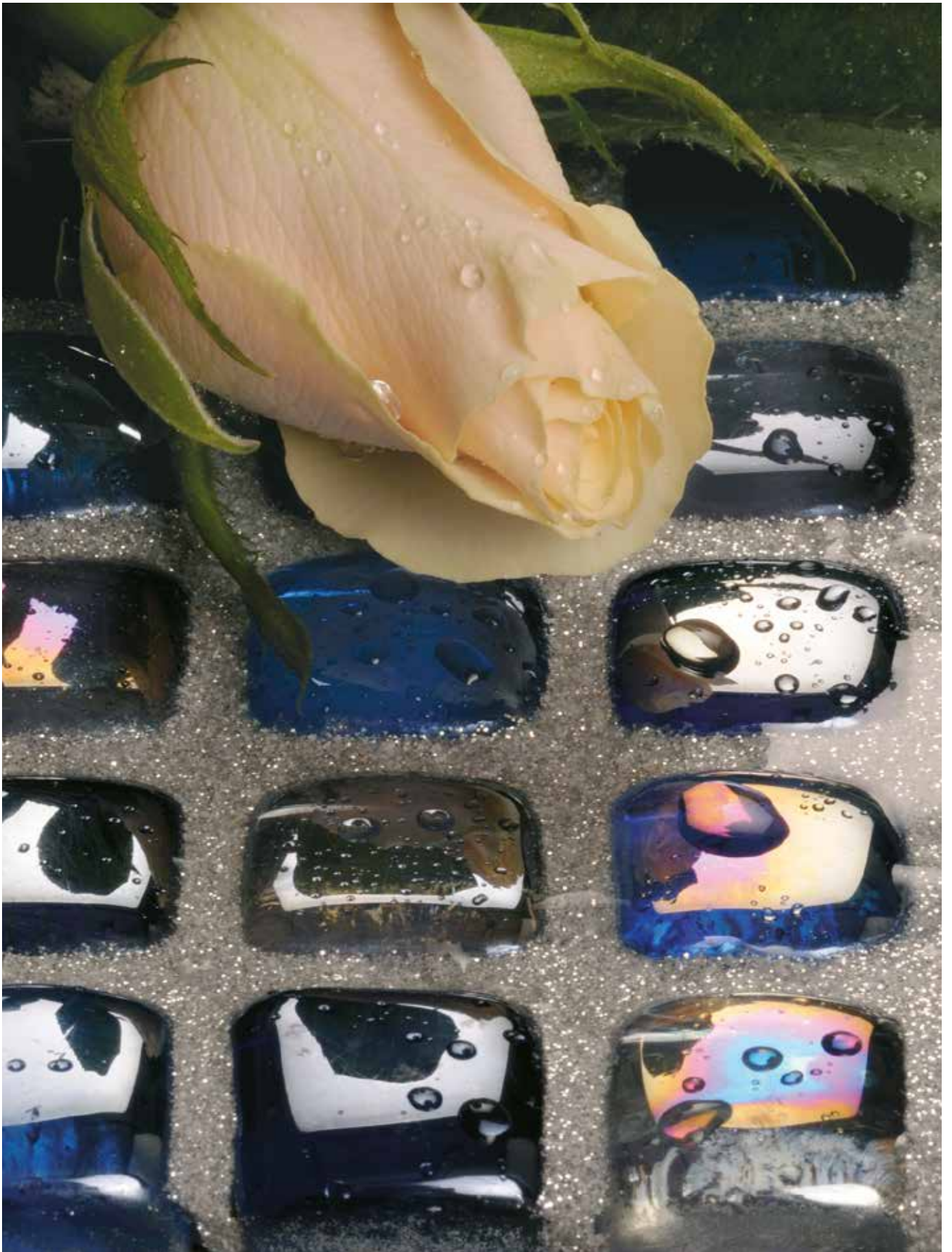


It is a polymeric dispersion additive for Benfer PRIMAFUGA cement joint grouts to improve elasticity, waterproofing, mechanical resistance and adhesion.

### Product Technical Data

Basis:	Synthetic latex
Colour:	White
Storage and duration:	12 months in a cool dry place, in the original unopened packaging
Toxicity:	No
Inflammability:	No
pH:	6
Density:	Approx. 1.02 kg/dm <sup>3</sup>
Viscosity:	6 mPa.s at 23°C
Application temperature:	From + 5°C to + 35°C
Resistance to temperature extremes:	From - 30°C to + 90°C
Coverage:	In substitution of water in mixture







## DEKOGROUT-3K

Patented epoxy grout that offers durability, stain protection, resistant to molds and microorganisms, available in 52 colours



Pot life: 45 min at 23°C  
Foot traffic after: 24 hours  
Consumption: see table  
EN 13888 RG

### ADVANTAGES

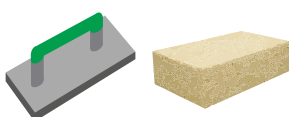
- Non-absorbent
- Equipped with anti-microbial technology
- Stain, mould and acid resistant
- 52 colour options available + 5 additional sparkle finish options with dazzle component
- For interior, exterior and submerged applications
- Easy to maintain and clean to the original colour
- Uniform colour - no blotchiness or shading
- Tough, durable and crack resistant
- Resistant to chemical and mechanical loads
- Does not require sealing
- Suitable for large format tiles and slabs
- For joints from 1 - 12 mm wide
- Suitable for heated floors and walls
- Resistant to freeze/thaw cycles

### APPLICATION ADVANTAGES

- Odourless, extraordinary ease of use
- Easy to remove excess product during application due to unique composition
- Extended workability
- Application temperature from 10°C to 35°C

### CERTIFICATES

- EN 13888 RG, ANSI A118.3-1999 • GREENGUARD



Art. no/Colour

Package/Pallet

Remark: Easy cleaning with water

see table

5.28 kg bucket

### Areas of application:

Can be used for grout joints from 1 to 12 mm wide on tiled floors and walls in: bathrooms, showers, saunas, spas, swimming pools (even with saliters of water), laboratory benches, kitchen counters, hospitals, or anywhere where a grout with colour uniformity, hygiene, durability and ease of cleaning is needed.

DEKOGROUT-3K is available in 5.28 kg buckets containing:

1 Part A white paste, component	0.60 kg
1 Part B Liquid, component	0.60 kg
1 Part C quartz, box component	4.08 kg

**DEKOGROUT-3K Colours**

Colour	Art.No.	Colour	Art.No.
44 Bright White	000002425	66 Chestnut Brown	000002451
18 Sauterne	000002426	59 Espresso	000002452
16 Siltstone	000002427	35 Mocha	000002453
85 Almond	000002428	50 Sea Glass	000002454
03 Silk	000002429	67 Autumn Green	000002455
23 Antique White	000002430	33 Boston Fern	000002456
39 Mushroom	000002431	14 Moss	000002457
41 Kashmir	000002432	13 Lichen	000002458
81 Butter Cream	000002433	06 Limade	000002459
52 Toasted Almond	000002434	07 Lemonade	000002460
55 Tawny	000002435	04 Artic Blue	000002461
17 Marble Beige	000002436	37 Chambray	000002462
40 Latte	000002437	05 Pastel Blue	000002463
61 Parchment	000002438	32 Turquoise	000002464
30 Sand Beige	000002439	53 Twilight Blue	000002465
56 Desert Khaki	000002440	42 Platinum	000002466
38 River Rock	000002441	91 Slate Grey	000002467
27 Hemp	000002442	88 Silver Shadow	000002468
57 Hot Cocoa	000002443	89 Smoke Grey	000002469
92 Saltillo	000002444	90 Light Pewter	000002470
58 Terra Cotta	000002445	78 Sterling Silver	000002471
46 Quarry Red	000002446	24 Natural Grey	000002472
47 Cinnamon	000002447	34 Sandstone	000002473
36 Copper Beach	000002448	60 Dusty Grey	000002474
08 Cherry Red	000002449	45 Raven	000002475
43 Chocolate Truffle	000002450	22 Midnight Black	000002476

N.B. The colours depicted in this chart are reproduced as realistically as possible but are only indicative. They must be verified by the end user who assumes all responsibility deriving from product use

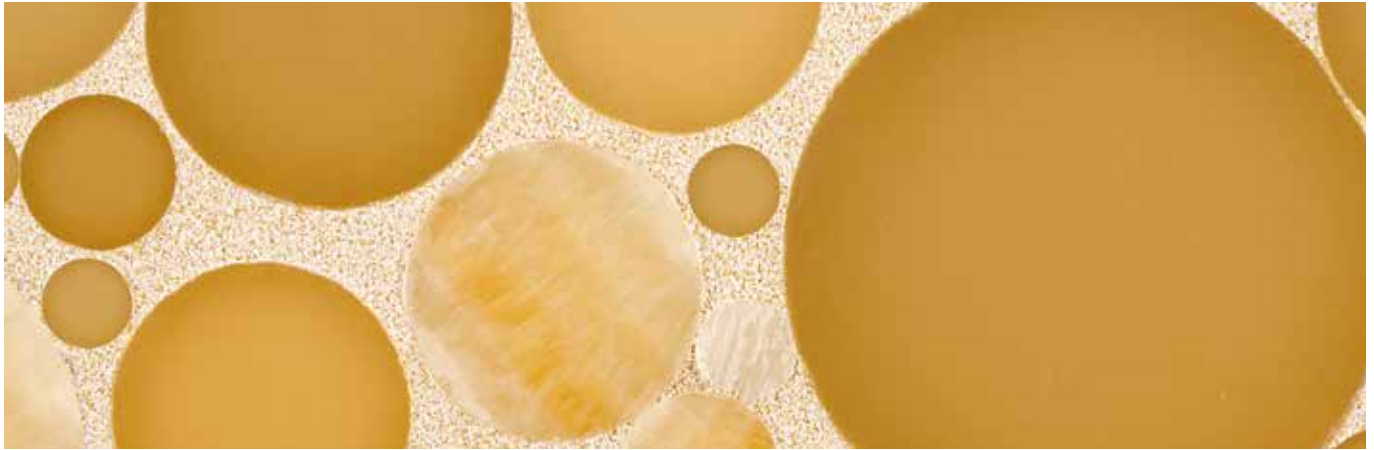
**DEKOGROUT-3K DAZZLE** component with brilliant metallic effects.

DEKOGROUT-3K DAZZLE is a unique design component with brilliant metallic or "glow-in-the-dark" effects. Incredible design possibilities to enhance tile and stone installation

DAZZLE	Art.No.
Gold	000012080
Silver	000012081
Copper	000012082
Pearl	000012083
Glow	000012084

## Examples of combinations with the DAZZLE

	44 Bright White + Glow DAZZLE
	24 Natural Grey + Silver DAZZLE
	61 Parchment + Copper DAZZLE
	22 Midnight Black + Pearl DAZZLE
	22 Midnight Black + Gold DAZZLE



## DEKOGROUT-3K - Coverage table

DEKOGROUT-3K joints 1 to 12 mm wide  
Coverage: kg per 10 m<sup>2</sup> of tiled surface

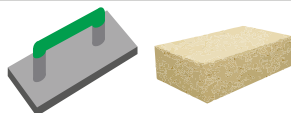
Size of the tile (cm)		Thickness (mm)	Joint width (cm)						
width	length		0.1	0.2	0.4	0.6	0.8	1	1.2
2.5	2.5	0.4	5.90	11.8					
2.5	2.5	1.0	14.8	29.6	59.2				
5	5	0.4	2.95	5.90	11.8	17.8	23.7	29.6	35.5
10	10	0.8	2.95	5.90	11.8	17.8	23.7	29.6	35.5
20	10	0.8	2.20	4.45	8.85	13.3	17.8	22.2	26.6
15	15	0.8	1.95	3.95	7.80	11.8	15.8	19.7	23.7
15	15	1.4	3.45	6.90	13.8	20.7	27.6	34.5	41.4
24	11.5	1.2	2.85	5.70	11.4	17.1	22.8	28.6	34.3
20	20	0.8	1.45	2.95	5.90	8.85	11.8	14.8	17.8
30	30	0.8	1.00	1.95	3.95	5.90	7.90	9.85	11.8
33	33	0.8	0.90	1.80	3.60	5.35	7.15	8.95	10.8
40	40	0.8	0.75	1.45	2.95	4.45	5.90	7.40	8.90
60	30	0.8	0.75	1.45	2.95	4.45	5.90	7.40	8.90
60	60	0.8	0.50	1.00	1.95	2.95	3.95	4.95	5.90
120	60	0.8	0.35	0.75	1.45	2.20	2.95	3.70	4.45
120	120	0.5	0.25	0.50	1.00	1.50	2.00	2.50	2.95
360	120	0.5	0.10	0.20	0.40	0.60	0.80	1.00	1.20

### Product Technical Data

Consistency:	<b>Part A:</b> Dense liquid <b>Part C:</b> powder	<b>Part B:</b> Dense liquid
Specific weight:	<b>Part A:</b> 1.1 kg/dm <sup>3</sup> . <b>Part B:</b> 1.6 kg/dm <sup>3</sup>	<b>Part B:</b> 1.1 kg/dm <sup>3</sup>
Danger of toxicity:	<b>Part A:</b> May cause severe skin burns and eye damage. May cause an allergic skin reaction. Harmful to aquatic organisms. <b>Part B:</b> May cause skin irritation and severe eye irritation. May cause an allergic skin reaction. <b>Part C:</b> May cause eye irritation.	
Inflammable:	No	
Mixture ratio:	<b>Part A: Part B: Part C:</b> = 11.1:11.1:77.8	
Mixing time:	2 - 3 minutes (mixer . 300 - 500 r/min)	
Consistency of paste:	Doughy	
Application temperature:	From + 10°C to + 35°C	
Largeness of application:	From 1 mm to 12 mm	
Humidity resistance:	Excellent	
Aging process resistance:	Excellent	
Resistance to temperature :	From - 20°C to + 100°C	
Storage and Duration :	24 months in a dry place, in the original closed package; open bags must be closed again and used as soon as possible.	

**EPOXYJOINT****Two part antiacid adhesive-grouting mixture for joints**

Pot life: 45 min at 23°C  
 Foot traffic after: 24 hours  
 Consumption: see table  
 Adhesive: approx. 1.60 kg/m<sup>2</sup>/  
 mm thickness  
 EN 13888 RG  
 EN 12004 R2T



Execution of joints in all types of ceramic floor and wall coverings (excluding those with absorbent surfaces) up to 10 mm of width in:

- environments for food preparation use (dairies, butcheries, wine canteens, dressed pork factories, cheese factories)
- swimming pools and tanks containing chemically aggressive liquids
- laboratory counters, kitchen counters, hospitals
- anyplace where a covering that is long lasting, easy to clean and attractive is desired

Bi-component anti-acid sealer-adhesive. It is a special bi-component product based on epoxy resins, select quartz and special additives, suitable for gluing and filling all types of ceramic floor and wall coverings on a variety of supports, with exceptional waterproof qualities and resistance to chemical and mechanical aggression. Designed to harden rapidly and without shrinkage and easy to clean with water, EPOXYJOINT is available in various colors that enhance the appearance of the coverings and guarantee resistance to aging and joint cleanliness that is not possible with traditional grouts.



Remark: Efficient, cost effective



Colour	Art. no.	Colour	Code	Package	Package/Pallet
	000001400	Bianco	Bianco	5 kg bucket	80 buckets/pallet
	000001411	Grigio chiaro	7035	5 kg bucket	80 buckets/pallet
	000001410	Grigio	7030	5 kg bucket	80 buckets/pallet
	000001405	Beige	1013	5 kg bucket	80 buckets/pallet

**EPOXYJOINT - Coverage table -**

Coverage: kg per 10 m<sup>2</sup> of tiled surface

Size of the tile (cm)	Thickness (cm)	Width of the joint (mm)				
		2	3	4	5	8
2.5 x 2.5	0.4	9.2	13.8			
10 x 10	0.6	3.9	5.9	7.9	9.8	15.7
12.5 x 12.5	1.0	5.2	7.9	10.5	13.1	21.0
10 x 20	0.8	3.9	5.9	7.9	9.8	15.7
24 x 11.5	1.2	5.5	8.3	11.0	13.8	22.0
20 x 20	1.4	4.6	6.9	9.2	11.5	18.4
20 x 20	0.8	2.6	3.9	5.2	6.6	10.5
30 x 30	0.8	2.1	3.1	4.2	5.2	8.4
40 x 40	1.0	2.0	3.0	3.9	4.9	7.9
30 x 60	1.0	2.0	3.0	3.9	4.9	7.9
60 x 60	1.0	1.3	2.0	2.6	3.3	5.2

**Product Technical Data**

Consistency:	<b>Part A</b> Doughy	<b>Part B</b> Dense liquid
Specific weight:	1.65 kg/dm <sup>3</sup>	0.95 kg/dm <sup>3</sup>
Danger of toxicity:	The product may cause irritation to the eyes and skin. May cause sensitization.	Caustic and toxic for contact with skin, ingestion and inhalation. May cause sensitization.
Inflammable:	No	
Mixture ratio:	Part A: Part B = 94:6	
Mixing time:	2-3 minutes (mixer . 300 - 500 r/min)	
Consistency of paste:	Doughy	
Application temperature:	From + 12°C to + 30°C	
Largeness of application:	From 1 to 10 mm	
Storage and Duration :	24 months in a dry place, in the original closed package; open bags must be closed again and used as soon as possible.	



## DEKOGROUT-2K

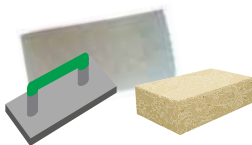
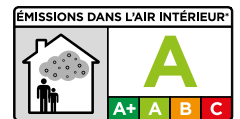
Two part non absorbent waterproof adhesive-grouting mixture. Non-absorbent, antibacterial, anti-mould, anti-stain and acid resistant. Beautiful finish, easy to apply, low consumption.



Pot life: 45 min at 23°C  
Foot traffic after: 24 hours  
Consumption: see table  
EN 13888 RG,  
EN 12004 R2T

- Antibacterial and mould resistant
- Perfect for rectified tiles
- Water repellent
- Resistant to freeze/thaw cycles
- Good application and wash-off properties
- Smooth surface and wide colour range (26 colours)
- Resistant to chemical and mechanical loads
- For interior, exterior and under water
- Fulfils the requirements of EN 13888, RG and EN 12004 R2T
- For joints from 1 - 10 mm wide
- Suitable for floor and wall heating
- Colours matched to the DEKOSIL silicone system.

DEKOGROUT-2K is a special two part product with an epoxy resin base, selected quartzes and special additives suitable for sticking and grouting all types of ceramic floorings and coverings onto a wide variety of bases, waterproof and resistant to chemical and mechanical loads. Designed to harden rapidly and without shrinking, easy to use and clean with water, DEKOGROUT-2K is waterproof, non-absorbent, acid, stain, bacteria and mould resistant. It guarantees an aspect and a resistance to aging and a cleanliness of the joint that can not be obtained with traditional grouts. DEKOGROUT-2K is available in 26 colours plus a clear version which can be enriched with coloured glitter to give a "metallic" effect to enhance the beauty of the covering.



Art. no./Colour

Package/Pallet

Remark: Easy cleaning with water

see table

see table



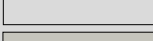




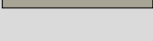

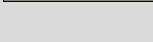
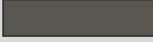

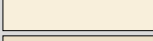







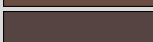

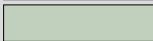







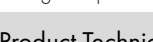


### DEKOGROUT-2K - Coverage table -

DEKOGROUT-2K for joints from 2 up to 10 mm.  
Coverage: kg per 10 m<sup>2</sup> of tiled surface

Size of the tile (cm)	Thickness (cm)	Width of the joint (mm)						
		2	3	4	5	6	8	10
1 x 1	0.3	18.4						
2 x 2	0.4	11.5						
2.5 x 2.5	0.4	9.2	13.8					
2.5 x 2.5	1.0	23.6	35.4					
5 x 5	0.4	5.2	7.9	10.5	13.1	15.7	21.0	26.2
10 x 10	1.0	6.6	9.8	13.1	16.4	19.7	26.2	32.8
10 x 10	0.6	3.9	5.9	7.9	9.8	11.8	15.7	19.7
12.5 x 12.5	1.0	5.2	7.9	10.5	13.1	15.7	21.0	26.2
10 x 20	0.8	3.9	5.9	7.9	9.8	11.8	15.7	19.7
15 x 15	1.4	6.4	9.6	12.9	16.1	19.3	25.7	32.1
15 x 15	0.8	3.7	5.5	7.3	9.2	11.0	14.7	18.4
24 x 11.5	1.2	5.5	8.3	11.0	13.8	16.5	22.0	27.6
24 x 11.5	2.0	9.2	13.8	18.4	23.0	27.6	36.7	45.9
20 x 20	1.4	4.6	6.9	9.2	11.5	13.8	18.4	23.0
20 x 20	0.8	2.6	3.9	5.2	6.6	7.9	10.5	13.1
20 x 25	0.8	2.4	3.5	4.7	5.9	7.1	9.4	11.8
25 x 25	1.0	2.6	3.9	5.2	6.6	7.9	10.5	13.1
25 x 33	1.0	2.6	3.9	5.2	6.6	7.9	10.5	13.1
30 x 30	1.5	3.9	5.9	7.9	9.8	11.8	15.7	19.7
30 x 30	0.8	2.1	3.1	4.2	5.2	6.3	8.4	10.5
30 x 5	1.0	7.9	11.8	15.7	19.7	23.6	31.5	39.4
33 x 33	0.8	2.1	3.1	4.2	5.2	6.3	8.4	10.5
40 x 40	1.0	2.0	3.0	3.9	4.9	5.9	7.9	9.8
30 x 60	1.0	2.0	3.0	3.9	4.9	5.9	7.9	9.8
60 x 60	1.0	1.3	2.0	2.6	3.3	3.9	5.2	6.6

## DEKOGROUT-2K Colours

Colour	Art.no.	Colour	Code	Package	Package/Europallet
	000001550	Bianco	Bianco	2,5 kg bucket	80 buckets/ europallet
	000001551	Bianco	Bianco	5 kg bucket	40 buckets/ europallet
	000001580	Manhattan	Manhattan	2,5 kg bucket	40 buckets/ europallet
	000001552	Grigio chiaro	7035	2,5 kg bucket	80 buckets/ europallet
	000001553	Grigio chiaro	7035	5 kg bucket	40 buckets/ europallet
	000001554	Grigio	7042	2,5 kg bucket	80 buckets/ europallet
	000001555	Grigio	7042	5 kg bucket	40 buckets/ europallet
	000001556	Grigio tortora	Grigio tortora	2,5 kg bucket	80 buckets/ europallet
	000001557	Grigio tortora	Grigio tortora	5 kg bucket	40 buckets/ europallet
	000001558	Grigio cemento	7030	2,5 kg bucket	80 buckets/ europallet
	000001559	Grigio cemento	7030	5 kg bucket	40 buckets/ europallet
	000001560	Antracite	7037	2,5 kg bucket	80 buckets/ europallet
	000001561	Nero	9004	2,5 kg bucket	80 buckets/ europallet
	000001562	Off white	Off white	2,5 kg bucket	80 buckets/ europallet
	000001563	Crema marfil	9001	2,5 kg bucket	80 buckets/ europallet
	000001564	Travertino	Travertino	2,5 kg bucket	80 buckets/ europallet
	000001565	Beige	1013	2,5 kg bucket	80 buckets/ europallet
	000001566	Camel	1001	2,5 kg bucket	80 buckets/ europallet
	000001581	Nocciola	Nocciola	2,5 kg bucket	80 buckets/ europallet
	000001582	Caramello	Caramello	2,5 kg bucket	80 buckets/ europallet
	000001567	Tabacco	8007	2,5 kg bucket	80 buckets/ europallet
	000001568	Marrone	8011	2,5 kg bucket	80 buckets/ europallet
	000001569	Testa di moro	8017	2,5 kg bucket	80 buckets/ europallet
	000001570	Giallo	1012	2,5 kg bucket	80 buckets/ europallet
	000001571	Verde	6019	2,5 kg bucket	80 buckets/ europallet
	000001572	Smeraldo	6024	2,5 kg bucket	80 buckets/ europallet
	000001573	Crocus	Crocus	2,5 kg bucket	80 buckets/ europallet
	000001574	Azzurro	5012	2,5 kg bucket	80 buckets/ europallet
	000001575	Blu	5013	2,5 kg bucket	80 buckets/ europallet
	000001577	Rosa	3014	2,5 kg bucket	80 buckets/ europallet
	000001578	Rosso maranello	3003	2,5 kg bucket	80 buckets/ europallet

N.B. The colours depicted in this chart are reproduced as realistically as possible but are only indicative. They must be verified by the end user who assumes all responsibility deriving from product use

## Product Technical Data

Consistency:	<b>Part A:</b> Doughy.	<b>Part B:</b> Dense liquid
Specific weight:	<b>Part A:</b> 1.65 kg/dm <sup>3</sup>	<b>Part B:</b> 0.95 kg/dm <sup>3</sup>
Danger of toxicity:	<b>Part A:</b> The product may cause irritation to the eyes and skin. May cause sensitization. <b>Part B:</b> caustic and toxic for contact with skin, ingestion and inhalation. May cause sensitization	
Inflammable:	No	
Mixture ratio:	<b>Part A : Part B</b> = 94:6	
Mixing time:	2-3 minutes (mixer . 300 - 500 r/min)	
Consistency of paste:	Doughy	
Application temperature:	From + 12°C to + 30°C	
Largeness of application :	From 1 to 10 mm	
Humidity resistance:	Excellent	
Aging process resistance:	Excellent	
Resistance to temperature :	From - 20°C to + 100°C	
Storage and Duration :	24 months in a dry place, in the original closed package; open bags must be closed again and used as soon as possible.	

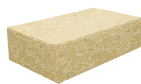


## DEKOSIL

### Silicone joint sealant



CONFORM: ISO 11600-G-25LM  
Remark: Contains fungicide  
Consumption: see table



Art.no./ DEKOSIL colours

- Contains fungicide • Elastic • Resistant to weathering and aging • Waterproof • Resistant to chemicals and chlorine
- For interiors and exteriors • One component • Solvent free
- Non slump • Smooth paste consistency
- For walls and floors • Conform : ISO 11600-G-25LM

DEKOSIL is used in sanitary applications for sealing connecting joints between tiled finishes and wash-basins, bath-tubs, shower trays, architraves and window frames; furthermore for sealing movement joints in wall and floor areas. For interior and exterior use. Not suitable for aquariums. Not suitable for jointing natural stone or in underwater areas.



Art.no./ DEKOSIL colours		DEKOGROUT-HF 1/30	DEKOGROUT	DEKOGROUT+	Colour	Package
004049/Trasparente					Trasparente	6 Cartridge 310 ml
004046/Bianco			✓	✓	Bianco	6 Cartridge 310 ml
004058/Grigio argento				✓	Grigio Argento	6 Cartridge 310 ml
004059/Manhattan				✓	Manhattan	6 Cartridge 310 ml
004047/Grigio chiaro7035		✓	✓	✓	Grigio chiaro	6 Cartridge 310 ml
004048/Grigio7042			✓	✓	Grigio	6 Cartridge 310 ml
			✓		Grigio tortora	
004050/Grigio cemento		✓	✓		Grigio cemento	6 Cartridge 310 ml
004051/Antracite7037			✓	✓	Antracite	6 Cartridge 310 ml
004052/Nero			✓		Nero	6 Cartridge 310 ml
004055/Beige1013		✓	✓	✓	Beige	6 Cartridge 310 ml
			✓		Crema Marfil	
		✓	✓	✓	Off White	
				✓	Jasmine	
004056/Travertino		✓	✓	✓	Travertino	6 Cartridge 310 ml
004063/Nocciola			✓	✓	Nocciola	6 Cartridge 310 ml
			✓	✓	Caramello	6 Cartridge 310 ml
004061/Tabacco 8007			✓	✓	Tabacco	6 Cartridge 310 ml
			✓	✓	Camel	
004057/Marrone			✓	✓	Marrone	
			✓		Testa di moro	

### Product Technical Data

Basis:	Acetic silicone
Density:	0.98-1.00 g/cm <sup>3</sup>
Application temp./surface:	From + 5°C to + 35°C
Hardening speed:	About 3 mm/24h
Hardness SHORE A (ISO 868) :	18 - 25 °
Elastic modulus:	(100%) (ISO 8339) aprox. 0.4 MPa
Tensile strength:	(ISO 8339) aprox. 0.7 MPa
Elongation at break:	(ISO 8339) aprox. 250 %
Movement capability:	25%
Resistance to temperature:	From - 40°C to + 80°C
Storage and duration:	18 months, in the original unopened packaging in a dry and cool place.

### DEKOSIL - Consumption -

Joint size	Linear meter/Cartridge
5x5	11
5x10	5.4
10x10	2.7
15x10	1.8
20x10	1.35
25x10	1.10
30x15	0.63
40x20	0.36

**DEKOFLEX-PU**

## Elastic joint sealing adhesive



Consumption: Depending on joint volume

- Elastic 1-component polyurethane joint sealing pigmented adhesive
- High elasticity and stable to light and UV
- Has good resistance to acid and alkalis in solution, saline solution, neutral water based detergents, as well as warm oils and greasy liquids

DEKOFLEX-PU is used as sealer for floor joints in heavy duty spaces such as industries, alehouses, food industries, industrial kitchens, dairies, balconies, terraces as well as concrete elements (with movements up to 15-20% of joint wideness).



	Art. no/Colour	Package	Package
Remark: accommodation up to 15 - 20% of the joint width	000004031 /White 000004032 /Grey 000004033 /Grey	6 Cartridge 310 ml 6 Cartridge 310 ml 6 Cartridge 600 ml	6 pcs box 6 pcs box 6 pcs box

## Product Technical Data

Basis:	Thixotropic, polyurethane elastic 1-component joint sealer
Colours:	White and Grey
Density:	1.30 g/cm <sup>3</sup>
Application temperature/surface:	From + 5°C to + 35°C
Processing time:	2 hours
Hardening speed:	> 2 mm/24h
Hardness SHORE A:	20 ° - 25 °
Elastic modulus (100% DIN 53504):	< 0.4 MPa
Elongation at break:	(DIN 53504) aprox. 600 %
Capacity of elastic recession (DIN 52458):	85%
Movement capability:	25%
Resistance to temperature:	From - 40°C to + 80°C
Storage and duration:	12 months, in the original unopened packaging in a dry and cool place.



## BENFERCURE-VARIO-10 and BENFERCURE-VARIO-40

Rapid setting and rapid hardening mortars for reparation of concrete degraded structures



Pot life:

BENFERCURE-VARIO-10:

10 min \*

BENFERCURE-VARIO-40:

40 min \*

\* at +20 °C

Consumption: approx. 1.80 kg/  
m<sup>2</sup>/mm thickness

BENFERCURE-VARIO-10 and BENFERCURE-VARIO-40 are antisag cement based mortars with the following properties:

- Cement based mortars classified R4, rapid setting and rapid hardening, for reparation of horizontal, vertical and overhead concrete structures
- Water impermeable, it prevent reinforcing steel corrosion
- Impede the passage of CO<sub>2</sub>
- Cure with low shrinkage and without cracks even under dynamic load
- Resistant to frost and de-icing salts
- For voids from 2 to 40 mm depth, maximum grain size: 0.6 mm
- Thanks to rapid setting and rapid hardening allows to make small jobs in one day
- Easy to smooth with float or sponge
- Water vapor permeable



Conforms to:

EN 1504-3 CLASS R4, repair and structural recovery of concrete  
EN 1504-2 protection of concrete



Art. no/Colour

Package/Pallet

Remark: rapid hardening

BENFERCURE-VARIO-10  
24-12004-E025-K/Grey

25 kg bag/60 bags pallet

BENFERCURE-VARIO-40  
24-12007-E025-K/Grey

25 kg bag/60 bags pallet

Consumption (mixed with water):

Approx. 1.8 kg/m<sup>2</sup>/mm thickness

Approx. 1 liter mixed material = for 2.15 kg



**Areas of application:** BENFERCURE-VARIO-10 and BENFERCURE-VARIO-40 are thixotropic mortars used for renovation of horizontal, vertical and overhead concrete surface profiles in thickness up to 40 mm and for reparation of concrete structures under dynamic load (under roadways, concrete rails). They are suitable for reparation of pillars, of defects like gravel pockets, ramps and industrial floors. Thanks to their properties they allow fast and easy operation because it is not necessary a corrosion inhibitor application to reinforcing steel, there is no need for an additional smoothing mortar and can be finished with a breathable paint after 3 hours only.



## Product preparation:

BENFERCURE-VARIO-40: 25 kg bag with 4.75- 5.25 liters of water

BENFERCURE-VARIO-10: 25 Kg bag with 4.75 - 5.25 liters of water

Fill a mixing vessel with the above mentioned water quantity.

Add the product under constant mixing with a suitable stirrer (approx. 300 rpm).

Mix thoroughly for approx. 2- 3 minutes to a lump free mortar.

Use a compulsory mixer for preparing large quantities.

Only mix as much material as it can be used within pot life.

Application tools: Hand trowel, wood float, steel trowel, hand tools for smoothing, sponge.

## Product Technical Data

Basis:	Grey powder
Colour:	Grey
Storage and duration:	12 months in the original unopened packaging;
Flammability:	No
Maximum grain size:	0.6 mm
Mix ratio: approx.	4.75 - 5.25 liters of water per 25 kg bag (19-21%)
Mixing time:	2-3 min (drilling machine min. 300 - 500 r/min)
Mixture consistency:	Thixotropic mortar
Mass volume:	2.15 kg/dm <sup>3</sup>
pH:	12
Application temperature:	From + 5° C to + 35° C
Pot Life:	BENFERCURE-VARIO-10 approx.10 minutes* at +20 °C BENFERCURE-VARIO-40 approx.40 minutes* at +20 °C
Max.min. thickness:	From 2 to 40 mm
Final hardening:	28 days
Compression strength after 28 days:	45 N/mm <sup>2</sup>
Chloride ions content (EN1015-17):	≤ 0.05%
Binding of adhesion (EN1542):	≥ 2.0 MPa
Shrinkage and expansion (EN12617-4):	< 0,05%
Capillary absorption (EN13057):	< 0.25 kg/m <sup>2 h-0,5</sup>
Thermal compatibility part 1 (EN13687-1) freeze-thaw:	≥ 2.0 MPa
Thermal compatibility part 2 (EN13687-2) storm:	≥ 2.0 MPa
Thermal compatibility part 4 (EN13687-4) dry cycles:	≥ 2.0 MPa

## BENFERCURE PLUS

High-resistance, anti-shrinkage fibre-reinforced, thixotropic cement mortar, for structural restoration of deteriorated concrete



Pot life: 50 min\*  
Consumption: 1.7 kg/m<sup>2</sup>/mm  
thickness  
EN 1504-3 CLASSE R3

- Repair of concrete columns
- Repair of under-surfaces of concrete balconies
- Repair and finishing of concrete walls with defects such as ballast nests and holes caused by spacers
- Repairs of concrete deteriorated by weather and the corrosion of steel reinforcement bars
- Repairs of concrete industrial ramps and floors
- Shaving of concrete screeds before the laying tiled floors
- Conforms to EN 1504-3 Class R3



Art. no/Colour

Package/Pallet

Remark: High resistance

24-01421-E025-K/  
Grey

25 kg bag/50 bags pallet



BENFERCURE PLUS is a cement mortar in powder composed of high-resistance concrete, selected gradation aggregate, synthetic resin, fibres and special additives. Its highresistance formulation has been created and developed for the rapid and safe repair of horizontal and vertical concrete surfaces while at the same time restoring the mechanical resistance. It is easy to work and has a high thixotropy allowing application of coats up to 4 cm, even vertically. Once hardened, thanks to the excellent adhesion to the sub-base and the elasticity and water-resistance, it guarantees a long life span even on surfaces subject to abrasion from intense traffic.

BENFERCURE PLUS can be applied with a trowel or brush, even vertically, up to a maximum thickness of four centimetres per coat for two coats.

The surfaces can be finished with a trowel while the mortar is setting or later with BENFERFINISH.

### Product Technical Data

Aspect:	Grey powder
Storage:	12 months, in the original closed package in a cool dry place
Inflammability:	No
Maximum grain size:	0.6 mm
Mix ratio:	19-21% water equivalent to 4.75-5.25 liters of water per 25 kg bag
Mixing time:	2-3 min (drilling machine min. 300 - 500 r/min)
Mixture consistency:	Thixotropic mortar
Mass volume:	2.050 kg/dm <sup>3</sup>
Paste pH:	12
Application temperature:	From + 5° C to + 35° C
Max.min. thickness:	From 2 to 30 mm
Final hardening:	28 days
Resistance to temperature:	From - 30° C to + 90° C
* at 23°C and 50% relative humidity	

**BENFERCURE FLUIDO**

Dripping setting and normal hardening mortar for reparation of degraded concrete structures and for protection against corrosion of reinforcing steel



- Expanding, for fixing and anchoring of metal elements
- Cement based mortars classified R4
- To reparation horizontal thanks to dripping process, or vertical into formwork
- To repair industrial floors
- Water impermeable, it prevents reinforcing steels corrosion
- Impedes the passage of CO<sub>2</sub>
- Resistant to frost and de-icing salts
- For thickness from 5 to 40 mm
- Expanding, for fixing and anchoring of metal elements
- Permeable to water vapor
- Recyclable as inert
- Contains regional aggregates



Pot life: 20 min \*

Consumption: 19.5 kg/m<sup>2</sup>/cm thickness

Conforms to:

EN 1504-3 CLASS R4 repair and structural recovery of concrete

EN 1504-6 fixing steel structures



Art. no/Colour

Package/Pallet

Remark: Dripping

24-01104-E025-K/  
Grey

25 kg bag/60 bags pallet

**Product Technical Data**

Basis:	Grey powder
Color:	Cement grey
Storage and duration:	12 months in the original unopened packaging;
Flammability:	No
Maximum grain size:	2.5 mm
Mix ratio:	17-19% of water, 4.25 – 4.75 liters of water per 25 kg bag
Mixing time:	3-5 min (drilling machine min. 300 - 500 R/min)
Mixture consistency:	Fluid mortar
Mass volume:	2.3 kg/dm <sup>3</sup>
Application temperature:	From + 5° C to + 40° C
Paste pH:	12
Max./ min. thickness:	From 5 to 40 mm
Final hardening:	28 days
Compression strength at 28 days:	> 45 N/mm <sup>2</sup>
Chloride ions content (EN1015-17):	0.005%
Binding of adhesion (EN1542):	> 2.0 MPa
Shrinkage and expansion (EN12617-4):	< 0.05%
Capillary absorption (EN13057):	≤ 0,25 kg/m <sup>2</sup> h <sup>1/2</sup>
Thermal compatibility part 1 (EN 13687-1) freeze-thaw:	> 2.0 MPa
Thermal compatibility part 2 (EN 13687-2) storm:	> 2.0 MPa
Thermal compatibility part 1 (EN 13687-3) dry cycles:	> 2.0 MPa
Resistance to extraction of steel bars:	0.27 mm

\* at 23°C and 50% relative humidity



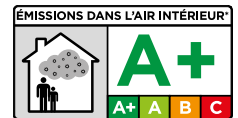
## BENFERCURE FERRI

### Corrosion inhibitor



Pot life: Approx. 60 min  
Light foot traffic after: 4 hours

- Anti-corrosion protection for concrete reinforcing rods
- Promoted adhesion during concrete pouring between the old and fresh coats and between the concrete and repair mortar



Art. no/Colour

Package/Pallet

Remark: One component

000009000/Blue

2 kg bucket/4 buckets parcel

### Consumption:

Rods of 8 mm diameter: from 80 to 120 g/m = 16 - 25 m with a 2 kg package

Rods of 10 mm diameter: from 100 to 150 g/m = 13 - 20 m with a 2 kg package

Rods of 14 mm diameter: from 150 to 200 g/m = 10 - 13 m with a 2 kg package



Single component cement-based product in powder form, with selected aggregates, polymers and special corrosion inhibitor additives.

Its formula was designed and developed to prevent the formation of rust on reinforcing rods thanks to its waterproof and atmospheric gas-proof qualities and its alkalinity.

When mixed with water it becomes a highly adhesive tixotropic mortar easy to apply with a brush, also indicated as an adhesion promoter.

### Product Technical Data

Basis:	Powder
Colour:	Blue
Maximum grain size:	0.5 mm
Apparent mass volume:	1.2 kg/dm <sup>3</sup>
Pot life:	Approx. 60 min
Application time before second coat:	3 hours
Application time for following coatings:	1 day
Application temperature:	From + 5° C to + 35° C
Corrosion protection:	After 4 hours
Storage and duration:	12 months in the original unopened packaging, in a dry cool place

## BENFERPLASTER-FI WHITE (BIANCO)

Adhesive/levelling mortar, fiber reinforced for thermal insulation



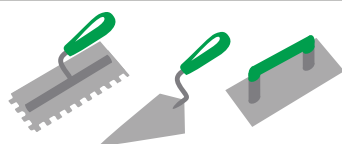
Pot life: 2 hours\*

Consumption: Min. 3 kg/m<sup>2</sup>

- Adhesive and specific levelling mortar for exterior insulation and finishing system
- Fine grain size • Extremely easy to use
- White • Tested according to EN 998-1, GP-CSIV-W2

### Technical features:

BENFERPLASTER-FI WHITE (BIANCO) is an adhesive/levelling mortar, fiber-reinforced for exterior insulation and finishing system, whose composition is cement, aggregates with selected grain size, fiber and synthetic resins and special additives. Its formula has been created and developed to paste in a rapid and safe way all the boards used in exterior thermal insulation. The product can also be used for levelling with the use of a fiberglass mesh on insulating panels and concrete surfaces.



Art. no/Colour

Package/Pallet

Remark: fiber reinforced

000001482/White

25 kg bag/60 bags pallet

### Product Technical Data

Consistency:	Cement, aggregates, additives, fibers
Colour:	White
Apparent mass volume:	1.25 kg/dm <sup>3</sup>
Maximum grain size:	1.4 mm
Storage and shelf life:	12 months in original packaging, store in a fresh and dry place
Inflammability:	No
Mix ratio:	25-28 %, 6.25-7 liters of water for 25 kg powder
Mixture consistency:	Creamy
Mass volume of dough:	1.70 kg/dm <sup>3</sup>
Mass volume of hardened mortar:	1.40 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Time of workability:	2 hours*
Minimum thickness for levelling panels:	5 mm
Consumption during application of panels:	Min. 3 kg/m <sup>2</sup>
Consumption during levelling of panels:	1.4 kg/m <sup>2</sup> /mm thickness
Final hardening:	7 days*
Compression strength:	> 6 N/mm <sup>2</sup>
Flexural strength:	> 3 N/mm <sup>2</sup>
Water absorption:	< 0.2 Kg/m <sup>2</sup> min <sup>0.5</sup>
Vapor permeability:	< 25
Adhesion to support:	> 0.5 N/mm <sup>2</sup>
Thermal conductivity:	λ = 0.47 W/mK
Temperature resistance:	From - 30°C up to + 90°C

\* at 23°C and 50% relative humidity

## BENFERPLASTER-07

### Adhesive/levelling fibred mortar powder for thermal insulation

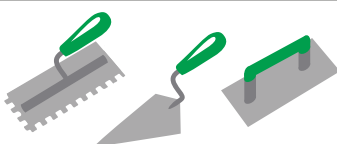


Pot life: 2 hours\*

Consumption: Minimo 3 kg/m<sup>2</sup>

- Adhesive and specific levelling mortar for exterior insulation and finishing system
- Fine grain size • Contains mineral fibers
- Extremely easy to use
- Tested according to EN 998-1, GP-CSIV-W2

BENFERPLASTER-07 is an adhesive/levelling mortar, fiber-reinforced for exterior insulation and finishing system, whose composition is cement, aggregates with selected grain size with diameter less of 0.7 mm, synthetic resins and special additives. Its formula has been created and developed to paste in a rapid and safe way all the boards used in exterior thermal insulation. The product can also be used for levelling with the use of a fiberglass mesh on insulating panels and concrete surfaces.



Art. no/Colour

Package/Pallet

Remark: Contains mineral fibers

000001483/White  
000001481/Grey

25 kg bag/60 bags pallet  
25 kg bag/60 bags pallet

### Product Technical Data

Consistency:	Cement, aggregates, additives, fibers
Colour:	White and Grey
Apparent mass volume:	1.35 kg/dm <sup>3</sup>
Maximum grain size:	0.7 mm
Storage and shelf life:	12 months in original packaging, store in a fresh and dry place
Toxicity:	No. Possible irritation of the eyes and skin upon contact due to presence of cement
Inflammability:	No
Mix ratio:	24-27 %, 6-6.75 liters of water for 25 kg powder
Mixture consistency:	Creamy
Mass volume of dough:	1.70 kg/dm <sup>3</sup>
Mass volume of hardened mortar:	1.45 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Time of workability:	2 hours*
Minimum thickness for levelling panels:	5 mm
Consumption during application of panels:	Min. 3 kg/m <sup>2</sup>
Consumption during levelling of panels:	1.4 kg/m <sup>2</sup> /mm thickness
Final hardening:	7 days*
Compression strength:	> 6 N/mm <sup>2</sup>
Flexural strength:	> 3 N/mm <sup>2</sup>
Water absorption:	< 0.4 Kg/m <sup>2</sup> min <sup>0.5</sup>
Vapor permeability:	< 20
Adhesion to support:	> 0.5 N/mm <sup>2</sup>
Thermal conductivity:	λ = 0.47 W/mK
Temperature resistance:	From - 30°C up to + 90°C

\* at 23°C and 50% relative humidity

## BENFERDROP

Hydrophobic treatment for cement and lime-based products, brick and natural stone



Consumption: 0.05 - 0.5 kg/m<sup>2</sup>  
depending on absorption.

- Perfect on rough and exposed plaster
- Waterproofing of cement joints
- Easy to use
- Effective and lasting protection
- Prevents the formation of white salts
- Ecological



Art. No.

Package/Pallet

Remark: Effective and lasting protection

000001486  
000001485  
000001490

25 kg can  
5 kg cans/100 cans pallet  
1 kg pot/12 pots box



Hydrophobic treatment for cement and lime-based products, brick and natural stone. Eco-friendly and practically odourless white liquid consisting of siloxanes in a solvent-free aqueous solution.

On drying, BENFERDROP becomes completely transparent and invisible, leaving the original appearance and colour of treated surfaces unaffected.

The product's superior water repellent properties protect substrates from troublesome infiltrations of water that can result in blooming and permanent damp, or cause parts of the substrate itself to break off or crumble due to frost.

Benferdrop will not produce unsightly white efflorescence on treated surfaces.






### Product Technical Data

Appearance:	White latex
Conservation:	12 months in the original packaging, intact
Danger of harm:	No
Inflammability:	No
Specif weight:	1.0 kg/dm <sup>3</sup>
pH:	Approx. 8
Coverage:	From 0.05 to 0.5 lt/m <sup>2</sup> depending on absorption
Application temperature:	From + 5°C to + 40°C
Final hardening:	3 days



## BENFERCLEAN

### Acid cleaner

	<ul style="list-style-type: none"><li>• Cleaning hardened encrustations of cement or tile adhesives and grouts from brick, cotto, ceramic tiles, fully vitrified stoneware, natural stone, concrete, sanitary ware</li><li>• Cleaning efflorescence from cotto, joints between tiles, plaster, etc.</li><li>• Cleaning cement mixers, scaffolding, cranes and other building site equipment</li><li>• Cleaning stainless steel or chrome parts, or removing superficial rust</li></ul>					
	<div></div> <table><tr><th>Art. n.</th><th>Package/Pallet</th></tr><tr><td>000001545 000001547</td><td>5 kg cans/100 cans pallet 1 kg pot/12 pots box</td></tr></table>		Art. n.	Package/Pallet	000001545 000001547	5 kg cans/100 cans pallet 1 kg pot/12 pots box
Art. n.	Package/Pallet					
000001545 000001547	5 kg cans/100 cans pallet 1 kg pot/12 pots box					
Remark: Easy to use						



An acid cleaner consisting of an inorganic acid solution with corrosion inhibitors. It is suitable for cleaning hardened encrustations of cement, lime scale and efflorescence from brickwork, ceramic tiles, cotto, cured cement, sanitary ware. At the correct concentration, BENFERCLEAN is a mildly aggressive solution that acts slowly and progressively to dissolve encrustations, avoiding violent chemical attack on more soluble materials. This allows its penetrative action to be suitably checked, especially on gaps, joints and fair-faced concrete. Once the excess cleaner has been washed off with water, the dissolving action stops immediately, preventing the damage that cleaners can often leave behind. The inclusion of corrosion inhibitors means also that BENFERCLEAN can be used on anodized aluminium, stainless steel and chrome without the risk of unwanted aggressive attack.

### Product Technical Data

Appearance:	Yellow liquid
Density:	1.05 kg/cm <sup>3</sup>
pH:	Approx. 1
Inflammability:	No
Danger of harm:	Irritating to eyes and skin. Use safety goggles and wear suitable protective clothing



All Benfer products are in full accordance with European regulations, in particular, the regulations governing the conformity of products in regards to regulation CPR 305/2011.

Conformity with regulation CPR 305/2011 is mandatory for some types of construction materials, and particularly for products and systems for reparation and restoration of concrete structures, for floor and wall adhesives, for premixed screed and plasters.

These construction materials must bear the CE marking on their packages in order to be sold in the European Community. In order for the packaging to bear the CE marking, the manufacturer must possess a declaration of conformity to reference standards and must demonstrate having met said standards by means of specific testing.

The raw materials, the production processes and the products in question must also be controlled according to a plan with periodical tests defined by law.

Therefore, conformity with regulation CPR 305/2011 ensures the quality of the products and their suitability for the manufacturer's indicated applications.

Here below you find the main information related to some norms, and the explanation of the mean of the related symbols. These norms are written with the intention to give you basic information.

These information are not comprehensive and does not consider European and national directives that should be applicable to the products even depending their destination.

# ADHESIVES FOR CERAMICS

## Regulation EN 12004:2017

This regulation establishes the testing criteria and methods for the classification of ceramic floor and wall covering adhesives and related materials.

It divides the adhesives into 3 categories differentiated by a letter of the alphabet:

- C = cementitious.** Cement-based powder adhesives to be mixed with water or other appropriate liquids at the moment of use in the construction site.
- D = dispersion.** Synthetic polymer-based paste adhesives in water dispersion. These are ready for use.
- R = reactive.** Adhesives made up of two or more compounds that must be mixed at the moment of use in the construction site.

For each of these three categories, there are two distinct classifications based on resistance test results:

**Class 1 =** Normal adhesive, which reaches the minimum required resistance levels in all tests.

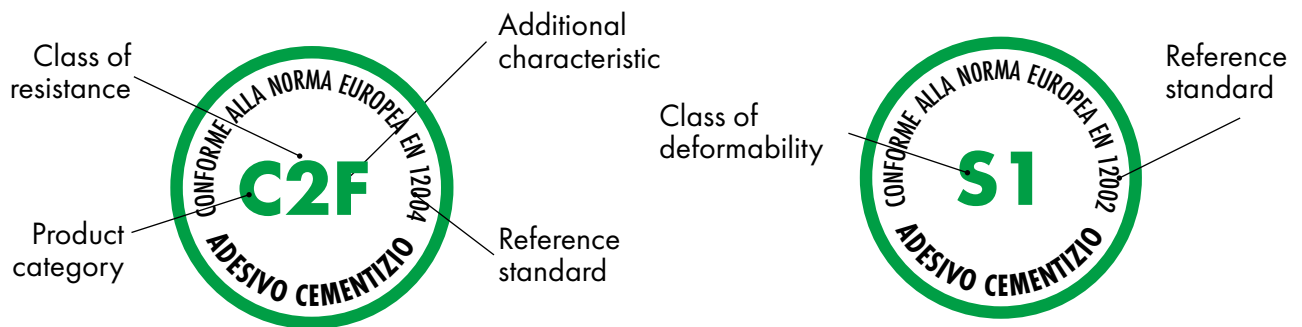
**Class 2 =** Extra-strength adhesive with a higher resistance than that required by Class 1.

The regulations also specify additional characteristics that Class 1 and 2 adhesives can have. These characteristics are as follows:

**E =** extended open time

**T =** slip resistant

**F =** fast setting



This regulation establishes (among other things) the test criteria and methods for the classification of floor and wall covering adhesives in ceramics and similar materials based on their deformability.

These are divided into two groups:

**S1** = deformable adhesives. Adhesives that reach deformability of  $< 5$  mm in specific tests.

**S2** = highly deformable adhesives. Adhesives that reach deformability of  $\geq 5$  mm in specific tests.

### CPR 305/2011

This regulation establishes (among other things) that our adhesives for flooring and coverings meet the minimum testing requirements in compliance with EN 12004 and that raw materials, the production processes and the finished product are subject to a control plan, including specific testing and periodicity.

## GROUTS FOR TILE JOINTS

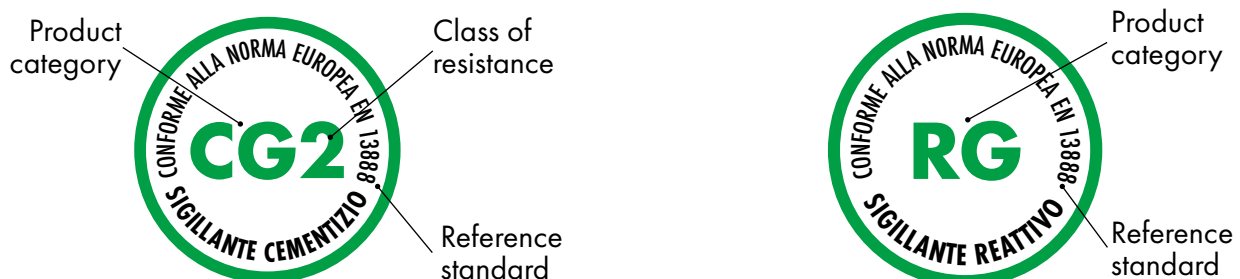
### Regulation EN 13888

This regulation establishes the test criteria and methods for the classification of grouts for tile joints for ceramics and similar materials.

It divides the grouts into 2 categories distinguished by letters of the alphabet:

**CG = cementitious.** Cement-based powder grouts to be mixed with water or an appropriate liquid at the moment of use in the construction site.

**RG = reactive.** Grouts made up of two or more compounds that must be mixed at the moment of use in the construction site.



For the products in category CG, there are two distinct classifications based on test results:

**Class 1** = normal grout, which reaches the minimum required levels in all tests.

**Class 2** = grout with reduced water absorption (W) and high abrasion resistance (A).

At the moment there is no CE marking for these types of materials.



# LIQUID APPLIED WATER IMPERMEABLE PRODUCTS FOR USE BENEATH CERAMIC TILING BONDED WITH ADHESIVES

## **STANDARD EN 14891:2017**

This standard establishes criteria, test methods and requirements for the evaluation of conformity, classification and designation of liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives.

The products are classified into three types:

- CM** cementitious liquid-applied water impermeable products
- DM** dispersion liquid-applied water impermeable products
- RM** reaction resin liquid-applied water impermeable products

To comply to the standard the products must have among other an adhesion strength  $\geq 0,5 \text{ N/mm}^2$  in all the tests, a crack bridging  $\geq 0,75 \text{ mm}$  and must not allow water penetration..

For each types the follow optional features are provided:

- O1** Products with crack bridging  $\geq 0,75 \text{ mm}$  at low temperature ( $-5^\circ\text{C}$ )
- O2** Products with a crack bridging  $\geq 0,75 \text{ mm}$  at very low temperature ( $-20^\circ\text{C}$ )
- P** Products having minimum adhesion resistance  $\geq 0,5 \text{ N/mm}^2$ , even after test with chlorinated water, without this requirement the product will not be suitable for use in swimming pools.

# CERAMIC FLOOR AND WALL TILING

## **UNI 11493:2017 Standard**

This standard stands as a guide for the creation of professional floor or coating that can ensure performance over time. It consists of two parts:

**Part 1**, called **“Design, installation and maintenance instructions”**, defines the quality and performance of ceramic tiling, provides rules and instructions for the choice of materials, design, installation, use, and maintenance and specific typical compliant solutions, such as to ensure the attainment and maintaining over time of required levels of quality and performance. It applies to all types of ceramic tiles.

Some basic requirements are found within it:

**Features and requirements of ceramic tiling:** regularity, durability, maintainability, safety, sustainability.

Requirements related to supports: ageing, conditions, compactness, resistance, dimensional regularity, surface finish and moisture.

**Selection and specification of tiles**, adhesives, material for grout and installation techniques related to project data.

**Requirements concerning installation layout** such as minimum width of the grout.

Requirements related to joints.

Design solutions for some significant situations: heated floors, swimming pools, terraces, façades, laying of large size/thin tiles.

Laying: verifications, checks and procedures.

Instructions for correct maintenance.

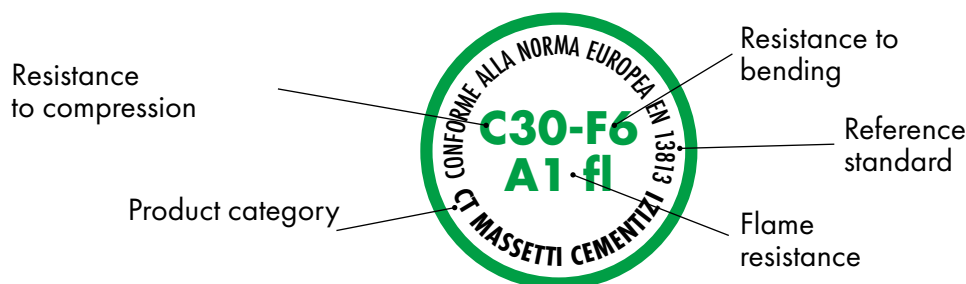
**Part 2**, called „**Knowledge, skill and competency requirements for installers of ceramic floor and wall tiles**,“ defines the role of the installer, outlining the basic requirements together with the body of knowledge, skills and competencies.

## PREMIXED MORTARS FOR SCREED

### Regulation EN 13813

This regulation specifies the requirements for screeds' products to use during construction of internal flooring.

- CT** = premixed mortars for cement screed. Cement-based premixed powder to be mixed with water at the moment of use in the construction site.
- C** = compression strength after 28 days (N/mm<sup>2</sup>)
- F** = flexural strength after 28 days (N/mm<sup>2</sup>)
- A1 fl** = flame resistant



### CPR 305/2011

This regulation establishes (among other things) that minimum test requirements for premixed mortars for screed provided by the regulation EN 13813, and that raw materials, production processes and finished products are subject to a control plan with defined periodical testing.

# PRODUCTS AND SYSTEMS FOR THE PROTECTION AND REPAIR OF CONCRETE STRUCTURES

## Regulation EN 1504

THESE PRODUCTS ARE SUBJECT TO THE regulation CPR 305/2011

This standard establishes the criteria and requirements for the conformity assessment, classification and description of products for the protection and repair of concrete structures.

Standard EN 1504 is composed of 10 parts. Here we will analyse only a few:

### Part 2

Specifies requirements for the identification, performance (including aspects of durability), safety and conformity assessment of products and systems to be used for the protection of concrete surfaces, to increase the durability of concrete structures and reinforced concrete, as well as for new concrete and for maintenance and repair works.

### Part 3

STRUCTURAL

NON STRUCTURAL

Class R4 / Class R3

Class R2 / Class R1

To be classified R4 and R3, products must have higher resistance in all provided tests with respect to the R2 and R1 class of products, they must have a higher elastic modulus of the limits set by the standard and must pass the resistance to carbonation test.

### Part 5

Defines and specifies requirements regarding products and systems that, when injected with a concrete element, repair the integrity and durability of the structure used for:

- filling cracks, voids and interstices in concrete in order to transmit forces (category F)
- ductile filling of cracks, voids and interstices in concrete (category D)
- expansive filling of cracks, voids and interstices in concrete (category S)

### Part 7

The standard specifies requirements for the identification and performance (including durability) of products and systems used for active coatings or barrier coatings for the protection of existing reinforcement steel that is uncoated and buried in concrete structures to be repaired.

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This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## FLOOR TILE ADHESIVES CHOICE GUIDE

The maximum length of the longer side of tiles, in cm, is reported in the boxes.

Warning: the following information in the box are the result of our experience.

MAX. LENGTH OF THE LONGER SIDE OF TILE (cm)		HIGH PERFORMANCE ADHESIVES FOR CERAMIC TILES AND STABLE NATURAL STONES						
		BENFERFLEX+S1	BENFERFLEX C2	Benfer ECOFlex	BENFERFLEX SEMI FLUIDE	BENFERFLEX RAPIDO	Benfer ECOFlex SP	BENFERGRIP+
EN 12004 classification		C2TES1 C2E (G)S1	C2TE S1	C2TE S1	C2 E S1	C2FTE S1	C2TE S1	C2TE
SUITABLE SUBSTRATES								
OUTSIDE	Aged concrete	120	120	120	120	120	120	45
	Cement screeds	120	120	120	120	120	120	45
	Flexible waterproofing	120	120	120	120	120	120	
INSIDE	Aged concrete	90	90	90	90	90	90	45
	Cement screeds standard or heated	360 <sup>1</sup>	360 <sup>1</sup>	360 <sup>1</sup>	360 <sup>1</sup>	360 <sup>1</sup>	360 <sup>1</sup>	90 <sup>2</sup>
	Fluid heated screed cement based	360 <sup>1</sup>	360 <sup>1</sup>	360 <sup>1</sup>	360 <sup>1</sup>	360 <sup>1</sup>	360 <sup>1</sup>	90 <sup>2</sup>
	Fluid anhydrite heated screed	120 <sup>1</sup>	120 <sup>1</sup>	120 <sup>1</sup>	120 <sup>1</sup>		120 <sup>1</sup>	60 <sup>2</sup>
	Old tiles	360	360	360	360	360	360	90
	Wooden boards	60	60	60	60	60	60	
	Flexible waterproofing	360	360	360	360	360	360	
	Steel / PVC							
SWIMMING POOL	Aged concrete	90	90	90	90	90	90	30
	Cement screeds	90	90	90	90	90	90	30
	Flexible waterproofing	90	90	90	90	90	90	
	Steel / PVC							

				HIGH PERFORMANCE EPOXY POLYURETHANE ADHESIVE
BENFERGRIP C2TE	BENFERGRIP C2TE + CEMLATEX 600	BENFERFIX C2TE	BENFERFIX EXTRA	BENFERJOLLY
C2TE	C2TE S2	C2TE	C1TE	R2T
45	120	45		120
45	120	45	30	120
	120			120
45	360	45		360
90 <sup>2</sup>	360 <sup>1</sup>	90 <sup>2</sup>	45 <sup>3</sup>	360 <sup>1</sup>
90 <sup>2</sup>	360 <sup>1</sup>	90 <sup>2</sup>		360 <sup>1</sup>
60 <sup>2</sup>	60 <sup>2</sup>	60 <sup>2</sup>		120 <sup>1</sup>
90	360	90		360
	60			90
	360			360
				60
30	120	30		120
30	120	30		120
	120			120
				60

#### NOTES:



Use not allowed



Abrasion of support is recommended



Fast setting



Treatment with specific primer

<sup>1</sup> with electric heating system, max. 90 cm

<sup>2</sup> allowed with water heating system

<sup>3</sup> only unheated



## WALL TILE ADHESIVES CHOICE GUIDE

WARNING: THE FOLLOWING INFORMATION IN THE BOX ARE THE RESULT OF OUR EXPERIENCE.

FOLLOW THE REGULATION VALID FOR THE COUNTRY WHERE THE PRODUCTS ARE USED IN ANY CASE.

MAX. LENGTH OF THE LONGER SIDE OF TILE (cm)		HIGH PERFORMANCE ADHESIVES FOR CERAMIC TILES AND STABLE NATURAL STONES HIGH						
		BENFERFLEX+S1	BENFERFLEX C2	Benfer ECOFlex	BENFERFLEX RAPIDO	Benfer ECOFlex SP	BENFERGRIP+	BENFERGRIP C2TE
EN 12004 classification		C2TE S1 C2E(G) S1	C2TE S1	C2TE S1	C2FTE S1	C2TE S1	C2TE	C2TE
SUITABLE SUBSTRATES								
OUTSIDE	Aged concrete <sup>4</sup>	90 <sup>1</sup>	90 <sup>1</sup>	90 <sup>1</sup>	90 <sup>1</sup>	90 <sup>1</sup>		
	Cement screeds <sup>4</sup>	90 <sup>1</sup>	90 <sup>1</sup>	90 <sup>1</sup>	90 <sup>1</sup>	90 <sup>1</sup>	30 <sup>1</sup>	30 <sup>1</sup>
	Flexible waterproofing <sup>4</sup>	90 <sup>1</sup>	90 <sup>1</sup>	90 <sup>1</sup>	90 <sup>1</sup>	90 <sup>1</sup>		
INSIDE	Aged concrete	360	360	360	360	360	60	60
	Cement screeds	360	360	360	360	360	60	60
	Cement based plaster	360	360	360	360	360	60	60
	Plasterboard	360	360	360	360	360	60	60
	Gypsum boards	360	360	360		360	60	60
	Old tiles <sup>3</sup>	360	360	360	360	360	30	30
	Wooden boards	60	60	60	60	60		
	Flexible waterproofing	120	120	120	120	120		
	Steel / PVC							
SWIMMING POOL	Aged concrete	90	90	90	90	90	30	30
	Cement screeds	90	90	90	90	90	30	30
	Flexible waterproofing	90	90	90	90	90		
	Steel / PVC							

			HIGH PERFORMANCE EPOXY POLYURETHANE ADHESIVE	READY TO USE ADHESIVES
BENFERGRIP C2TE + CEMLATEX 600	BENFERFIX C2TE	BENFERFIX EXTRA	BENFERJOLLY	POWERPLAST-D2
C2TE S2	C2TE	C1TE	R2T	D2T
120 <sup>1</sup>			120 <sup>1</sup>	
120 <sup>1</sup>	30 <sup>1</sup>		120 <sup>1</sup>	
120 <sup>1</sup>			120 <sup>1</sup>	
360	60		360	45
360	60	30	360	45
360	60	30	360	45
360	60	30	360	45
360	60		360	45
360	30		360	45 <sup>2</sup>
90			90	45
360			360	45 <sup>2</sup>
			60	
120	30		120	
120	30		120	
120			120	
			60	

#### NOTES:

	Use not allowed
	Treatment with specific primer
	Abrasion of support is recommended
	Fast setting
	Paste adhesive

<sup>1</sup> For tiles with longer side > 30 cm, the double coating is prescribed, the designer must consider the necessity of using a suitable mechanical security fix (point 7.13.7 or regulation UNI 11493-1)

<sup>2</sup> tiles with water absorption > 3%

<sup>3</sup> tiles must be stable and have a good adhesion to support

<sup>4</sup> the support must have a cohesion strength to traction (strain) and adhesion to the underneath load-bearing substrate, not inferior to 1 N/mm<sup>2</sup> (point 7.13.7 of regulation UNI 11493-1)

PRIMERS CHOICE GUIDE		WATER DISPERSION, SINGLE COMPONENT		BICOMPONENT
		BENFERPRIM	STARPRIM	ASOWOOD
CONSUMPTION grams/m <sup>2</sup>		100/150	150/600	200/400
SUITABLE SUBSTRATES				
OUTSIDE	Aged concrete			
	Cement screeds			
	Cement screeds with < 4% moisture < 6%			
	Substrates subject to rising moisture			
INSIDE	Aged concrete			
	Cement screeds standard or heated			
	Fluid heated screed cement based			
	Cement screeds with < 4% moisture < 6%			
	Substrates subject to rising moisture			
	Anhydrite screed 0,5% < moisture < 1%			
	Fluid anhydrite heated screed			
	Old tiles			
	Old wooden floor (abraded)			
	Wooden boards			
	Oil contaminated substrates			

 Use Not allowed

 Use allowed

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## PICTOGRAMS



for walls



for ceilings



for floors



for interior



for exterior



waterproof



frost resistant



UV resistant



vapor permeable



sealing under tiles  
and plates



suitable for underfloor  
heating



ready for use



one component



bi-component



can be modify with  
CEM LATEX 600



checked CE



EMICODE:  
verify EC1



EMICODE:  
verify EC1-R



EMICODE:  
verify EC1-Plus



EMICODE:  
verify EC1-Plus R



FAST TECHNOLOGY



dust reduced



3 in 1



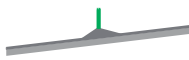
4 in 1



tiles size XL



tiles size XXL



squeegee frame



straight edge  
with 2 vials



pointing trowel



trowel



short square-  
notched trowel



large square-  
notched trowel



large round-  
notched trowel



rubber trowel



sponge



roller pointing



trowel 4 points



large roller



short roller



big brush



small brush





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