

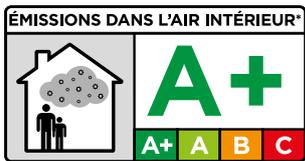


BENERGRIP C2TE

Slide resistant special adhesive with long open time

- 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 EN12004 C2 TE S2
- **CE**

This product improvable with CEMLATEX 600



TECHNICAL FEATURES:

BENERGRIP C2TE is a highly thixotropic adhesive in powder consisting of highly resistant cement, selected quartz granulometry, 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.
- BENERGRIP C2TE's special formula creates a thixotropic adhesive, which remains soft during mixing, spreading and tiling, but regains consistency immediately afterwards
- BENERGRIP 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
- BENERGRIP C2TE white does not contain sand and therefore it is particularly suitable also for laying glass mosaic.



AREAS OF APPLICATION:

Laying of porcelain, not absorbing single-fired tiles, ceramic and glass mosaic and humidity stable natural stones on:

- Interior and exterior wall and floor
- Public and private swimming pools with the addition of CEMLATEX 600

CONTRACT ITEM SPECIFICATIONS:

Floor and wall in ceramic tiles must be applied with a mono-component, cement-based adhesive flexible, polymer-modified, trowelable up to 10 mm thickness, with no sliding, in accordance with EN 12004 class C2TE, like BENERGRIP C2TE by Benfer.



TECHNICAL ASSISTANCE



INSURANCE GUARANTEE



TECHNICAL MEETINGS



PROFESSIONAL USE

SUITABLE SUBSTRATES:

- Concrete*
- Cement-based screeds, standard or heated with water system or electric resistance
- Cement-based plaster
- Flexible waterproofing membranes made up of cement and polymers (ACQUASHIELD-2KF)*
- Cement based blocks even cellular cement (we recommend the application of STARPRIM or BENFERPRIM).

INSIDE ONLY:

- Fluid cement-based screeds (prior application of an appropriate primer if demanded), standard or heated with water system or electric resistance
- Fluid anhydrite-based screeds (prior application of an appropriate primer), standard or heated with water system or electric resistance
- Old ceramic tiles (prior application of an appropriate primer)
- Standard or waterproof plasterboard
- Elastomeric waterproofing membranes (ACQUASHIELD-GEL)*
- Gypsum boards (prior application of STARPRIM or BENFERPRIM)

*Mixed with CEMLATEX 600

MAXIMUM SIZES:

- Internal floors with maximum length of longest tile side up to 90 cm.
- External floors with maximum length of longest tile side up to 45 cm.
- Internal walls coverings with maximum length of longest tile side up to 60 cm
- External walls coverings with maximum length of longest tile side up to 30 cm

See the choice table to verify size limits by tile/substrates characteristics.

MAXIMUM SIZES IF MIXED WITH CEMLATEX 600 (25 KG BENFERGRIP C2TE with 5 KG CEMLATEX 600):

- Internal floors with maximum length of longest tile side up to 360 cm.
- External floors with maximum length of longest tile side up to 120 cm.
- Internal walls coverings with maximum length of longest tile side up to 360 cm
- External walls coverings with maximum length of longest tile side up to 120 cm

See the choice table to verify size limits by tile/substrates characteristics.

METHODE OF USE:

SUBSTRATES PREPARATION:

The substrates must be solid, load-bearing, free from oil, grease and dust. Any paint-work must be in good condition, washed and degreased. If this is not the case, the paint must be carefully removed. Gypsum or calcium sulphate based substrates must be previously treated with BENFERPRIM. Absorbent substrates must be treated with BENFERPRIM.

MIXTURE PREPARATION:

Mix BENFERGRIP C2TE with 31% of water (7,75 liters for one 25 kg bag), until you obtain a homogeneous, bright, plastic adhesive. Leave it to rest 5 minutes, and then re-mix shortly. The adhesive is now ready for use and must be used within 4 hours.

With CEMLATEX 600: mix BENFERGRIP C2TE with 5 kg CEMLATEX 600 and 2,5 liters of water until you obtain a homogeneous, bright, plastic adhesive. Leave it to rest 5 minutes, and then re-mix shortly. The adhesive is now ready for use and it must be used within 4 hours.

TILING:

INTERIOR: Lay the tiles while exerting a good pressure on the tiles surface, in order that the contact between tile and adhesive will be at least of 95-100%.

EXTERIOR: The contact between tile and adhesive must be 100%, in order to avoid eventual rain infiltrations, that in case of frost could cause the detachment of the tiles. Therefore, it is suggested to spread also a layer of BENFERGRIP C2TE on the back of the tiles.

We suggest to do the same things even in interiors for:

- Floor tiles larger than 500 cm² with water absorption of the tiles \leq 0.5% (e.g. porcelain tiles)
- Floor tiles larger than 1 100 cm² with the other types of tiles
- Wall tiles larger than 1 20 cm² with water absorption of the tiles \leq 0.5% (e.g. porcelain tiles)
- Wall tiles larger than 500 cm² with the other types of tiles
- Special applications such as industrial refrigerators, basins, swimming pools, etc.

It is essential to leave a joint of at least 3 mm between each tile, and to ensure that the tiling conforms with the expansion joints of the structure, to be elastically sealed, as well as the joints between walls, and the joints between wall and floor. In any case, expansion joints and perimeter joints must be carried out every about 20 m².

FULL SERVICE:

At 23°C and with 50% relative humidity, the open time is approximately 30 minutes. Under unfavourable conditions, these times may be significantly reduced. You are therefore advised to spread the adhesive a little at a time and to check frequently that it has not formed a surface film before laying the tiles. To improve workability, especially in summer, it is useful to exclude draughts. In the first 48 hours after application, the adhesive does not withstand frost. Flooring installed using BENFERGRIP C2TE can be walked over cautiously after about 24 hours for grouting (48 hours for temperatures under 15°C). Full service after 7 days.

CLEANING: Tiling should be cleaned with a damp cloth or sponge when the adhesive has already started to set. Allow 48 hours after application of tiling before cleaning with larger quantities of water.

PACKAGING: BENFERGRIP C2TE is available in 25 kg poly-coated paper bags on europallet of 1.500 kg.

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

SHELF LIFE: 12 months from the date printed on the packaging.

CONSUMPTION: The consumption changes according to planarity of the support, to the trowel used and to the laying system (simple or double spreading).

Support	Tiled surface	Laying System	Trowel type mm.	Consumption kg/m ²
Pav.int.	S<1100	simple gluing	8/10	4/5
	1100<S<3600	double gluing	10 / 15	6/7
	3600<S<10000	double gluing	20	8
Pav.est.	400<S<1100	double gluing	8/10	5/6
	1100<S<3600	double gluing	10/15/20	6/7/8
Parete int.	S<400	simple gluing	6	3,5
	400<S<2000	double gluing	8/10	5/6
	2000<S<3600	double gluing	10	6
Parete est.	S<400	double gluing	6	4,5
	400<S<2000	double gluing	8/10	5/6
	2000<S<3600	double gluing	10	6

PRODUCT TECHNICAL DATA	Mixed with Water	Mixed with CEMLATEX 600
Classification EN 12004:	C2TE	C2TES2
Basis:	Cement, aggregates, additives	
Colour:	Extra white or Grey	
Apparent mass volume:	1,25 kg/dm ³	
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:	31%, 7,75 lt water/25 kg bag	5 lt CEMLATEX 600 and 2,5 lt water/25 kg bag
Mixture consistency:	Creamy	
Density of paste:	1,60 kg/dm ³	
Application temperature:	From + 5°C to + 35°C	
Pot Life:	3 hours*	
Open time:	30 minutes*	
Vertical sliding to EN 1308:	< 0,5 mm	
Maximum thickness:	15 mm	
Foot traffic:	12 hours	
Grouting:	12 hours*	
Full service:	7 days*	
Final hardening:	28 days*	
Final performance:		
Adhesion (after 28 days):	> 1,0 N/mm ²	
Adhesion after warming:	> 1,0 N/mm ²	
Adhesion after water immersion:	> 1,0 N/mm ²	
Adhesion after frost-thaw cycles:	> 1,0 N/mm ²	
Deformability according EN 12004:	1,8 mm	
Temperature resistance:	From -30° C to +90° C, * at 23°C and 50% relative humidity	

PLEASE NOTE: The information given in this chart is based on our best experience and indicative only. It must in any event be verified by the end user, who assumes all liabilities deriving from utilization of the product.