



# MARMOFLEX STONE

Flexible contact and bonding slurry

- Bonding agent for bonded cement based screeds
- Contact and bonding slurry for laying tiles and slabs in traditional sand/cement methods
- Polymer modified, high loading capacity
- For interior and exterior
- Easy to use



## TECHNICAL FEATURES:

MARMOFLEX STONE is product in powder, cement and additives based, modified with polymers. Mixed with water creates an adhesive mortar which is ideal for application of natural stones, even when irregular, and tiles on green screeds.

## AREAS OF APPLICATION:

MARMOFLEX STONE is used as a bonding agent for cement-based bonded screeds and as a contact and bonding slurry for the laying of tiles and slabs in traditional sand: cement methods. MARMOFLEX STONE is used as a bonding slurry for vitrified tiles, concrete slabs, ceramic tiles with low water absorption  $\leq 0.5\%$  (fully vitrified tiles), clinker, mosaic and non-translucent natural stone sensitive to discolouration.



TECHNICAL  
ASSISTANCE



INSURANCE  
GUARANTEE



TECHNICAL  
MEETINGS



PROFESSIONAL  
USE

## CONTRACT ITEM SPECIFICATIONS:

Tile floors and natural stone floors must be laid with an adhesion flexible mortar as MARMOFLEX STONE by Benfer.

Cementitious screeds must be laid and glued to supports with an adhesion flexible mortar as MARMOFLEX STONE by Benfer.

#### **SUITABLE SUBSTRATES:**

- Cement-based screeds
- Cement-based substrates

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#### **MAXIMUM SIZES:**

- Internal floors with maximum length of longest tile side up to 30 cm
- External floors with maximum length of longest tile side up to 30 cm

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

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#### **METHOD OF USE:**

##### **SUBSTRATES PREPARATION:**

Suitable substrates are concrete to DIN 1045, heated and unheated screeds to DIN 18560 and EN 13813 and rapid screeds. They may be dry or damp. The substrate must be load bearing, flat, sound, clean and free from materials that function as separating agents. Separating layers and laitance must be removed by suitable means e.g. blasting or scabbling.

##### **PRODUCT PREPARATION:**

###### **General:**

Place approx. 7.5 litres of water in a clean mixing bucket and add 25 kg of MARMOFLEX STONE and mix to a homogenous slurry with a drill mixer (approx. 300 – 700 rpm). The substrate and ambient temperature should not drop below +5°C during application and for one week after.

##### **PRODUCT APPLICATION:**

###### **As a bonding agent for cement-based bonded screeds:**

Brush the MARMOFLEX STONE into the dampened substrate with a brush, broom or roofers broom and lay the screed whilst it is still wet.

###### **As a contact slurry in traditional sand:cement bedding:**

Comb out the MARMOFLEX STONE on to the fresh mortar bed with a plasterers trowel or notched trowel

(4-8 mm notches) dependent on the format and type of tile to be laid. Press the tiles into the fresh BENFERFIX STONE within 15–20 minutes and tap into place.

###### **As a contact slurry by vibration fixing:**

Comb out the MARMOFLEX STONE on to the fresh mortar bed with a plasterers trowel or notched trowel (4-8mm notches) dependent on the format and type of tile to be laid. Press the tiles into the fresh BENFERFIX STONE within 15–20 minutes and tap into place. Up to the initial set time of the mortar bed vibrate the tiles in the usual manner.

MARMOFLEX STONE is particularly matched to our special screeding cements SOLIDONE and the pre-blended mortars with complimentary particle size distribution from the SOLIDONE range.

**FULL SERVICE:** 7 days.

#### ADVICE:

- Ventilation is necessary where the screed is laid.
- Avoid direct sunlight and draughts during installation and during the setting process.
- Do not add water or fresh mortar once the MARMOFLEX STONE has started to set. There is a danger of insufficient strength development!
- Lay screeds or floor coverings within the open time of the slurry!
- When laying natural or synthetic stone observe the product specific properties of the materials (tendency to discolour, curling etc) and the fixing recommendations of the manufacturer. In the case of doubt carry out a trial area.
- Protect areas not to be treated from the effects of MARMOFLEX STONE.
- High temperatures accelerate and lower temperatures slow down the setting process.
- When laying tiles or slabs on balconies and terraces we recommend the use of the highly flexible bonded waterproofing system ACQUASHIELD e adhesives of BENFERFLEX range.
- Protect from frost and water penetration during the setting phase.
- Use only clean tools and clean water.
- Work tools can be cleaned immediately after use with water.

Relevant current regulations are to be observed.

Please observe a current valid EU Safety Data Sheet.



**CLEANING:** With water before hardening.

**PACKAGING:** 25 kg bags.

**STORAGE:** In the original closed package in a cool dry place.

**SHELF LIFE:** 12 months.

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

Support	Tiled surface	Laying System	Trowel type mm.	Consumption kg / m <sup>2</sup>
Int. floor.	S<1100	simple gluing	4 / 8	1 / 2
	1100<S<3600	double gluing	4 / 8	1,5/2,5
Ext. floor.	400<S<900	double gluing	4 / 8	1,5/2,5

#### PRODUCT TECHNICAL DATA

Basis:	Cement , sand, additives
Color:	Grey
Apparent mass volume:	1,15 kg/dm <sup>3</sup>
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:	30% - 7,5 lt water per 25 kg bag
Mixture consistency:	Creamy
Application temperature:	From + 5°C to + 35°C
Pot life:	About 3 hours*
Open time:	20 minutes*
Maximum thickness:	15 mm
Foot traffic:	12 hours*
Grouting:	12 hours*
Full service:	7 days*
Final hardening:	28 days*
Temperature resistance:	From -30° C to +90° C, * at +23°C and at 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.