

BENFERGRIP +

SPECIAL ADHESIVE CREATED TO PREVENT VERTICAL SLIPPAGE OF TILES WHEN FIXING, HIGH ULTIMATE STRENGTH AND LONG OPEN TIME



TECHNICAL FEATURES:

Benfergrip + is a HIGHLY TIXOTROPIC 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 +**'s special formula creates a thixotropic adhesive, which remains soft during mixing, spreading and tiling, but regains consistency immediately afterwards.

- **Benfergrip +** 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 + white** does not contain sand and therefore it is particularly suitable also for laying glass mosaic.





FIELDS OF APPLICATION:

It can also be used to install large size porcelain stoneware, single fired non-absorbent materials and natural stone from top to bottom.

It can be used for laying marble mosaic floors and wall coverings and thick porcelain stoneware, and for laying glass mosaic.

It can be used for laying on plasterboard panels.

It can be used for laying Klinker wall coverings and thick floor coverings.

Laying and fixing of all types of ceramic and natural stone (provided that stable) floor and wall coverings: inside with size up to 60x60 cm; outside with size up to 40x40 for floor and up to 30x30 cm for wall.

For laying on heated floors of porcelain stoneware and single fired tiles with a surface up to 2.000 cm².

By replacing 20% of the water (5 litres to 25 kg of powder) with **Cemlatex 600**, **Benfergrip +** becomes an adhesive suitable for heated floors with sizes bigger than 2.000 cm², swimming pools, cold stores, prefabricated buildings and floors typically subject to heavy loading.

With the addition of **Cemlatex 600**, it is possible

to lay tiles outside with a maximum size of 40x40 on walls and 60x60 on floors.

WARNING:

Substrates must be of firm consistency and no less than 30 mm deep. If the depth is less than 30 mm in localized areas, a suitable mesh must be embedded, otherwise the substrate must be taken up and renewed completely.

Before applying **Benfergrip +**, make certain that the surface is free from dirt, paint, grease or wax. Dust can be removed with water. To remove grease, wax etc. use an alkaline detergent and then rinse with water. Paint needs to be removed mechanically, and the surface then rinsed clean. Any loose or inconsistent material must be cleared away to leave a firm and stable surface.

Newly laid slabs and screeds must be properly cured (at least six days for each cm depth).

On sub-bases in plaster, scagliola or anhydrite, apply two preventative coats of **Benferprim** in crisscross directions.

Do not bridge existing structural joints, and for unbroken expanses in excess of 30 m², create expansion joints (in both floor and substrate) selecting convenient break lines such as those along which casting is continued, or where there is a change in gradient, or where the floor meets columns and load bearing walls, taking care to leave a gap of at least 3 mm both in the substrate and between tiles.

Make sure to protect against frost during the first 48 hours after tiling.

PREPARATION AND METHOD OF USE:

Mix the adhesive with water at a rate of 3.33 to 1 (25 kg powder to 7.5 litres water approx.). For best results use a mechanical mixer at low rpm. The mix must be very soft, homogeneous and lump-free.

Allow to stand for 5 minutes then work up lightly again before using.

Apply the adhesive using a notched trowel suitable for the tiles being laid:

- with square teeth 6-8 mm wide for sizes up to 500 cm² (e.g. 20x25 cm)
- with square teeth 10 mm wide for sizes up to 900 cm² (e.g. 30x30 cm)

Lay the tiles, tapping lightly and applying sufficient pressure to achieve good contact between tile and adhesive.

When laying outside apply a thin layer of adhesive to the tile backs, making certain that no voids are left between the tiles and substrate, otherwise rainwater



may infiltrate and freeze, causing the tiles to lift.

To extract maximum performance from the adhesive it should be worked up at intervals in the bucket.

Benfergrip + has a long pot life (approximately 4 hours) but should be used nonetheless within 2 hours after adding water and applied a little at a time so that the adhesive being used is always fresh; this is particularly important in dry and/or windy conditions.

At temperatures of around 20°C floors laid with **Benfergrip +** can be walked on after 24 hours.

A longer wait is needed at lower temperatures, but as this is variable, the floor should be left at least 24 hours and protected from frost or flooding if necessary.

COVERAGE:

This will depend on the condition of the substrate and the type of trowel utilized. With a normal substrate and 10 mm notch, coverage is 4 kg/m².



PACKAGING:

Benfergrip + is available in 25 kg poly-lined bags and 1500 kg pallet loads.

STORAGE :

In original packs properly sealed and protected against frost, sunlight and humidity.

DURATION:

Grey version: 12 months from the date listed on the package; in conformity with the directive 2003/53/CE informing that this time expiration regards the efficiency of the reducing agent in respect to hydro-soluble chrome VI.

White version: 12 months

PRODUCT TECHNICAL DATA

	BENFERGRIP + AND WATER	BENFERGRIP + AND CEMLATEX 600
CONSISTENCY:	VERY DOUGHY	VERY DOUGHY
COLOUR:	GREY AND WHITE	GREY AND WHITE
CONSERVATION:	IN THE ORIGINAL UNOPENED PACKAGING, IN A DRY PLACE	CEMLATEX 600: PROTECT FROM FROST
DURATION:	GREY VERSION: 12MONTHS FROM THE DATE LISTED ON THE PACKAGE; IN CONFORMITY WITH THE DIRECTIVE 2003/53/CE INFORMING THAT THIS TIME EXPIRATION REGARDS THE EFFICIENCY OF THE REDUCING AGENT IN RESPECT TO HYDRO-SOLUBLE CHROME VI. WHITE VERSION: 12 MONTHS. CEMLATEX 600: 6 MONTHS.	
DANGER OF TOXICITY:	NONE THE CEMENT CONTENT OF THE PRODUCT MAY CAUSE IRRITATION TO THE SKIN AND EYES.	NONE
INFLAMMABILITY	NONE	NONE
MIXING RATIO:	30 PARTS WATER TO 100 PARTS POWDER BY WEIGHT	5 LITRES OF CEMLATEX 600 EACH 25 KG OF POWDER + ABOUT 2,75 LITRES OF WATER
LIQUID MIXTURE:	7.5 LITERS PER 25 KG SACK	
MAXIMUM APPLICATION DEPTH:	10 MM	
COVERAGE:	FROM 3,5 TO 5 KG/M ²	
VERTICAL SLIPPING (EN 1308):	< 0.5 mm	
APPLICATION TEMPERATURE:	FROM +5° C TO +40° C	
POT LIFE:	4 HOURS	
OPEN TIME AT 23°C AND 50% R.H.:	30 MINUTES	
WALKABLE ON DRY SUPPORTS AT 23° C:	24 HOURS	
FINAL HARDENING ON DRY SUPPORTS:	14 DAYS	

FINAL PERFORMANCES

	MIX WITH WATER		MIX WITH CEMLATEX 600	
	VALUE	REQUIREMENT	VALUE	REQUIREMENT
INITIAL ADHESION AFTER 28 DAYS:	≥ 1 N/mm ²	≥ 1 N/mm ²	1 N/mm ²	≥ 1 N/mm ²
ADHESION STRENGTH AFTER HEAT AGEING (14 DAYS + 14 DAYS A 70° C)	≥ 1 N/mm ²	≥ 1 N/mm ²	≥ 1 N/mm ²	≥ 1 N/mm ²
ADHESION STRENGTH AFTER WATER IMMERSION (7 DAYS + 21 DAYS INTO THE WATER)	≥ 1 N/mm ²	≥ 1 N/mm ²	≥ 1 N/mm ²	≥ 1 N/mm ²
ADHESION AFTER FREEZE - THAW CYCLE (25 CYCLES)	≥ 1 N/mm ²	≥ 1 N/mm ²	≥ 1 N/mm ²	≥ 1 N/mm ²
FLEXURAL STRENGTH (EN 12002)			≥ 5 /mm	≥ 5 mm
COMPRESSION STRENGTH	≥ 6 N/mm ²			≥ 11 N/mm ²
RESISTANCE TO TEMPERATURE	FROM -30° C TO + 80° C		FROM -30° C TO + 90° C	
CONFORMS TO	EN 12004 CLASSE C2TE		EN 12004 CLASSE C2TE	
			EN 12002 CLASSE S2	

dati rilevati a 23° e 50% di u.r.

NB: 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