

TILEGRIP FLEX

High Performance, Fibre Reinforced, Cementitious Tile Adhesive with Extended Open Time and No Vertical Slip

Description:

TILEGRIP FLEX is a cement based high polymer modified waterproof, flexible powder adhesive. Class C2TE. It consists of bonding agents, selected fillers and aggregates, polymers and special chemicals. When mixed with water, the product becomes thixotropic, high workable mortar. Once dried, it has high adhesive strength and excellent flexibility to accommodate movement.

TILEGRIP FLEX is suitable for fixing large sizes of tiles vertically and horizontally and for tiles on tiles application.

TILEGRIP FLEX adheres perfectly internally and externally to a variety of supports like: concrete, cement boards and cement block, polystyrene isolation boards, and gypsum and cement boards.

Applications:

- Tile over tile application for maintenance and renovation works.
- Restaurants and shops with high foot traffic and extensive cleaning.
- Walls and floors of showers, bathrooms and kitchens.
- Swimming pools and water features.
- External application of ceramics marble and stones (when mixed with ELASTOGRIP).
- Wet areas like kitchens and bathrooms.
- Can be used as adhesive for insulation material such as expanded polystyrene, cellular polyurethane.
- Bonding tiles to floor subject to heavy stress.
- Ideal for fixing non-porous tiles on top of non-porous substrate, if when mixed with ELASTOGRIP as replacement of gauged water.
- Can be applied on supports under minor deformations

Advantages:

- It can be used for all kinds of residential and commercial buildings.
- High bond to substrates.
- Easily applied to fix tiles on floor.
- Compatible with all types of cement substrates.
- High workability and engineered pot life.
- Waterproofing features with high elasticity.
- Non-sag properties, suitable for natural stone application on facades.
- Excellent to weather effects.
- Suitable for hot weather.
- Highly thixotropic. TILEGRIP FLEX can be applied on a vertical surface without sagging or letting the tiles slip, even when heavy tiles are used.
- Hardens without appreciable shrinkage.
- Extended open time.

Instructions for Use:

Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease. Ensure that concrete and blocks substrates are fully cured to avoid possible shrinkage movements.

Wet the surface before application to reach a saturated surface dry condition in order to gain best features of the product.

Mixing:

Add the contents of TILEGRIP FLEX bag into a container of 7.0-7.5 liters of clean water. Mix with a suitable paddle fitted to a slow speed drill (200-300 rpm) until a uniform, lump free consistency mix is achieved. Allow the mix to rest for about 5 minutes and then remix before application.

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Application:

With a notched trowel, spread the mixed TILEGRIP FLEX an average of 4 mm thick layer to the substrate evenly and in sufficient quantity. Sweep a second pass with the notched part of the trowel to even the distribution of the material. With pressure and twist movement fix the tile into the wet adhesive. Apply sufficient pressure on tile to ensure full contact between the back of the tile and the adhesive. After application and fixing of tiles, remove excess adhesive with a wet cloth before adhesive dries.

In case of application on large tiles, apply extra mix to the backside of the tile and then place the tile to the adhesive bed on the substrate.

When applying the tile over tile, makes sure the surface of the old tile is clean, free from oil and contaminants. Check that old tiles are properly adhered to the substrate. If any loose tiles exist, remove and glue it back in or fill the area with proper concrete repair material before the application of TILEGRIP FLEX.

Porosity of tiles and substrates have significant effect on adhesive strength of tiles. Porous tiles absorb the gauging water of the adhesive preventing full reaction of mix to harden properly. Consult with **MATEX** technical department and tile manufacturer

Remove excess of the adhesive mortar with damp cloth before it dries. Joints color grouting can be performed after 12 hours of tiling of walls and 24 hours of tiling of floors.

Prepare enough material that can be tiled during the open time of the mix. Spreading large areas may result to drying the adhesive before tiles can be fix, which will cause poor adhesion.

During summer season, cover the working area to prevent direct sun effect and keep tools in shade Do not apply TILEGRIP FLEX on metal, wood or non-absorbing surfaces

Standards:

TILEGRIP FLEX conforms to:

- EN 12004 – C2TE
- ISO 13007- C2TE
- ANSI 118.4 – 1992

TILEGRIP FLEX mixed with ELASTOGRIP conforms to:

- EN 12004 – C2TES1
- ISO 13007 – C2TES2

Packaging:

Available in 25 kg recyclable paper bags.

Cleaning:

Clean tools with water prior to product hardening.

Coverage:

Solid bed	:	1.23 Kg/m ² per 1mm thickness
3mm notched Trowel	:	1.45 Kg/m ² on smooth surface
Yield	:	20.4 Ltr. for 25 Kg bag (mixed)

TECHNICAL PROPERTIES

Color:	:	Grey, White
Open time at 20°C	:	>30 minutes
Adjustable time at 20°C	:	50 minutes
Service Temperature	:	-30 °C to +90 °C
Resistance to Alkalis	:	excellent
Resistance to Solvent	:	excellent
Resistance to Oil	:	excellent
Adhesive bed thick	:	Up to 10 mm
Grouting time	:	Walls: 12 hrs. Floors: 24 hrs.
Wet Density	:	1.58 Kg. / Lt.
Dry Density	:	1.36 Kg. / Lt.
Flexural Strength	:	2.1 N/mm ²
Adhesion strength (EN1348)	:	@ 28 days 1.8 N/mm ² after heat 1.7 N/mm ² after water immersion 1.2 N/mm ² after Freeze-thaw cycle 1.20 N/mm ²
Mixing Ratio (by weight)	:	100 parts powder 27-29 parts water
Water Resistance	:	Excellent
pH of mix	:	13
VOC	:	1 g/Ltr

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NOTE: TILEGRIP FLEX mixed with ELASTOGRIP further enhance flexibility, deformability on adhesion characteristics, for very large size and extra weather conditions.

Storage:

Store in original packing in dry conditions away from direct sunlight and high humidity levels.

Shelf Life:

TILEGRIP FLEX can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

Recommendation:

- It is always recommend to submit tile sample for MATEX technical department to confirm the compatibility of adhesive with tile.
- It is not recommend to use TILEGRIP FLEX on wooden, PVC, metal, rubber substrates
- Do not apply the product on surfaces subject to excessive movements or vibration
- It is not needed to wet the tiles before installation. In case of dusty tiles, it is recommend to wash them.
- The open time of TILEGRIP FLEX in normal conditions is 30 minutes. Unfavorable weather conditions (direct sunlight, drying wind, high temperature high absorbent substrate), could drastically reduce this time. Therefore one must constantly check that the adhesive has not formed a superficial skin and is still "fresh". Where there is a formation of a superficial skin, the adhesive must be reworked with the notched trowel. Wetting the adhesive after it has produced the skin is not recommended because the water forms an anti-adhesive film instead of dissolving it.
- Tiles installed with TILEGRIP FLEX must not be subject to running water or rain for at least 24 hours and must be protected from direct sunlight for at least 5 days after installation. Swimming pools and basins can be filled after 14 days.
- Do not use TILEGRIP FLEX with marble or natural stone subject to stains or efflorescence.

- TILEGRIP FLEX not recommend on:
 - Concrete subject to excessive shrinkage
 - Nonabsorbent vitrified porcelain
 - Substrates subject to excessive movement or vibration.
- For application on precast concrete non absorption vitrified porcelain or substrate subject to excessive vibration, seek the advice of MATEX technical department.

Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of products. Use only in well ventilated areas.
- Avoid contact with eyes or skin.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

