

TILEGRIP WPE

Waterproof Polymer Modified Tile Adhesive

Description:

TILEGRIP WPE is a pre-bagged cement based, polymer modified tile adhesive. It is composed of Portland cement, organic polymer chemical additives and silica sand. Once cured it presents an excellent adhesion, waterproofing features and durable fixing properties for ceramic tiles, semi-porous porcelain tiles, marble and natural stone.

TILEGRIP WPE adheres perfectly to a variety of supports like: concrete, cement boards, cement blocks. It is waterproof and does not contain fiber, asbestos or any harmful ingredients.

Applications:

- General areas like corridors and offices.
- Restaurants and shops with high foot traffic and extensive cleaning.
- Walls and floors of showers, bathrooms and kitchens.
- Swimming pools and water features, if mixed with ELASTOGRIP
- Non-sag properties suitable for natural stone application on facades.
- Suitable for hot weather.

Advantages:

- It can be used for all kinds of residential and commercial buildings.
- For fixing tiles on concrete substrates, floor screeds, cement plaster, renders, blocks and bricks.
- High bond to substrates.
- Compatible with all types of cement substrates.
- High workability and engineered pot life.

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 block substrates are fully cured to accommodate all shrinkage factors.

For Gypsum surfaces, treat the surface with ARMORPIME AC before application of TILEGRIP WPE.

Moisten the surface with clean water before applying the mixed product in order to reduce the absorption of water by the substrate from the mortar.

Inspect the porosity of tiles. For porous tile, it is necessary to mix TILEGRIP WPE with ELASTOGRIP or moisten the backside of the tiles to eliminate the risk of water absorption from the mix.

Mixing:

Add the contents of TILEGRIP WPE bag into a container of 5 to 5.5 liters of clean water. Mix with a suitable paddle attached 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.

Application:

With a notched trowel, spread the mixed TILEGRIP WPE to the substrate evenly and in sufficient quantity. Apply 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.

In cases of high movement and/or vibration such as application on precast panels replace the mixing water with ELASTOGRIP to ensure proper flexibility to accommodate the movement. Add ELASTOGRIP in place of gauging water diluted by ratio 1:1 with clean water,

TILEGRIP WPE

(remove half of water and add equivalent quantity of ELASTOGRIP.)

When applying tiles of sizes larger than 40x40 cm, apply tile adhesive to the back of the tile in addition to the applied tile adhesive on the substrate.

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, as some tiles require wetting and other tiles might require submersion with water before application.

Remove excess of 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.

Standards:

TILEGRIP WPE conforms to:

- EN 12004-C1T
- EN 1346, EN 1348
- ISO 13007 C1T
- ANSI A118.4

If mixed with ELASTOGRIP confirms to:

- ISO 13007- C2T

TECHNICAL PROPERTIES	
Color:	: Grey, White
Shear strength	: 1.4 N / mm ²
Water Resistance	: Excellent
Grouting time	: Walls: 12 hrs. Floors: 24 hrs.
Wet Density	: 1.67 Kg. / Lt.
Dry Density	: 1.40 Kg. / Lt.
Open time at 20°C	: 10 minutes
Adjustable Time	: 45 minutes
Adhesion Strength	: @ 28 days 1.20 N/mm ² after heat 0.90 N/mm ² after water immersion 0.85 N/mm ² after Freeze-thaw cycle 0.80 N/mm ²
Slip Resistance	: Excellent
VOC	: 2 g/L

Packaging:

Available in 25 kg recyclable paper bags.

Coverage:

Solid bed	: 1.38 Kg/m ² per 1mm thickness
3mm notched Trowel	: 1.65 Kg/m ² on smooth surface
Yield	: 18.1 Ltr. for 25 Kg bag (mixed)

Cleaning:

Clean with water before the product dries.

Shelf Life:

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

Remarks:

- The product should not be exposed to running water, rain, high winds or sand storms during application.
- Movement joints should be provide in accordance to normal practice.
- During summer season, cover the working area to prevent direct sun effect. Keep tools in shade and use cold water for mixing.
- Do not apply TILEGRIP WPE on painted surfaces, metal, wood or non-absorbing surfaces.
- Only spread enough adhesive, so that the tiles can be fixed within the open time.
- For Non-porus, vitrified porcelain tiles, use ELASTOGRIP in place of gauging water.
- For external application, mix TILEGRIP WPE with ELASTOGRIP. Contact with MATEX technical department for proper application.

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.
- In case of eye contact, flush thoroughly with plenty of water and seek immediate medical help.

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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.

