Technical Data Sheet

TILEGRIP WP

High Performance, Polymer Modified Cementitious Tile Adhesive with No Vertical Slip

Description:

TILEGRIP WP 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, porcelain, marble and natural stone.

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

Uses:

- It can be used for all kinds of residential and commercial buildings.
- For fixing tiles on concrete substrates, floor screeds, cement plaster, renders, foam concrete, blocks and bricks.
- 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.
- Indoor and outdoor applications.
- Non- sag properties suitable for natural stone application on facades.
- Suitable for hot weather.

Advantages:

- Good bond strength.
- Compatible with all types of cement substrates.
- High workability and engineered pot life.
- Waterproofing features and elasticity.
- Low slump and high initial grab, suitable for vertical applications.
- Suitable for interior and exterior applications.

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 or any other deleterious substances which may prevent or reduce adhesion. Ensure that concrete and block substrates are fully cured to accommodate shrinkage factor. Ensure that concrete and block substrates are fully cured to accommodate all shrinkage factors.

For Gypsum surfaces and cement board, treat the surface with ARMORPIME AC primer before application of TILEGRIP WP.

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 moisten the backside of the tiles to eliminate the risk of water absorption from the mix.

Mixing:

Add the contents of TILEGRIP WP bag into a container of 5.25 to 5.50 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 WP to the substrate evenly and in sufficient depth to achieve 80% adhesive contact to the back of tiles for interior application and up to 95% for exterior

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application. 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. Lift a tile from timeto time to check that there are no voids beneath the tiles. DO NOT SPOT FIX.

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

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 tilling of floors.

Standards:

- EN 12004 C2T
- EN 1346, EN 1348
- ISO 13007 C2T
- ANSI A118.4

If mixed with ELASTOGRIP:

- ISO 13007- C2TS1

TECHNICAL PROPERTIES	
Appearance	Grey, White
Wet Density	1.5±0.03 kg/lit
Consistency	Pasty
Application Temperature	+5°C to +40°C
Open time at 25°C (EN 1346)	20 minutes
Adjustable Time	45 minutes
Tile Adhesion Strength (EN 1348) Initial Adhesion (28 days) After Heat Ageing After Water Immersion After Freeze-thaw cycle	 1.5 N/mm² 1.05 N/mm² 1.04 N/mm² 1.00 N/mm²
Shear Strength	1.6 N/mm²
Slip Resistance	Excellent
Water Resistance	Excellent
Grouting time	Walls: 12 hrs. Floors: 24 hrs.
Service Temperature	-30°C to 90°C
VOC	2 g/L

Packaging:

Available in 25 kg clean, recyclable paper bags.

Coverage:

The consumption depends on the surface profile and tile size. As general guide the average consumption notched trowel application is as follows:

Small Tiles	:	2.0 Kg/m^2
Medium Tiles	:	3.0 Kg/m^2
Large Tiles	:	5-6 Kg/m^2
Yield	:	20.3 Ltr. For 25 Kg bag (mixed)

*Consumption will vary according to the type of tiles and support conditions.

Storage:

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

Shelf Life:

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

Cleaning:

Clean tools with water before the product dries. Hardened materials can only be removed mechanically.

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Remarks:

- It is always recommended to submit tile sample to MATEX technical department to confirm the compatibility of adhesive with tile.
- The product should not be exposed to running water, rain, high winds or sand storms during application.
- Movement joints should be provided in accordance with 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 WP 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 Zero porosity, tiles. Contact MATEX technical department for recommendation.
- For external application, mix TILEGRIP WP with ELASTOGRIP. Contact with MATEX technical department for proper application.

Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapor or spray mist.

FIRST AID:

Eyes:	In the event of accidental splashes, flush with warm water and seek medical advice.
Skin:	Wash skin thoroughly with soap and water
Inhalation:	Remove to fresh air, keep patient rested
Ingestion:	Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to TILEGRIP WP Material Safety Data Sheet.

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P.O. BOX: 29585, Dubai, UAE, Tel: +971 4 333 4140, Fax: +971 4 333 4115
Email: info@matex.ae, www.matex-global.com