

# TILEGRIP WPE

## Polymer Cementitious Modified Tile Adhesive with extended open time and no vertical slip

### 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, plaster, cement blocks. It is waterproofing and does not contain fiber, asbestos or any harmful ingredients.

### Uses:

- 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.
- Good bond strength.
- Compatible with all types of cement substrates.
- High workability and engineered pot life.
- Low slump and high initial grout, suitable for vertical 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.

For Gypsum surfaces and surface board, treat the surface with ARMORPIME AC or 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 5.25 to 5.75 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 depth to achieve 80% adhesive contact to the back of tiles for interior application and up to 95% for exterior 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 time to time

# TILEGRIP WPE

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 tiling of floors.

## Standards:

- EN 12004-C1TE
- EN 1346, EN 1348
- ISO 13007 C1TE
- ANSI A118.4

If mixed with ELASTOGRIP (100%):

- ISO 13007- C2TES1

TECHNICAL PROPERTIES	
Appearance	Grey, White
Wet Density	1.46 ± 0.03 kg/lit
Consistency	Pasty
Application Temperature	+5°C to +40°C
Open time at 25°C (EN 1346)	30 minutes
Adjustable Time	45 minutes
Tile Adhesion Strength (EN 1348):	
Initial Adhesion (28 days)	1.25 N/mm <sup>2</sup>
After Heat Ageing (28 days)	0.80 N/mm <sup>2</sup>
After Water Immersion (28 days)	0.90 N/mm <sup>2</sup>
After Freeze-thaw cycle (28 days)	1.0 N/mm <sup>2</sup>
Shear Strength	>2.0 N/mm <sup>2</sup>
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

\*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

## Coverage:

The consumption depends on the surface profile and tile size:

Yield : 21 Ltr. For 25 kg bag (mixed)

As general guide the average consumption notched trowel application is as follows:

Mosaic and small tile : 2-2.5 kg/m<sup>2</sup>

Medium size tiles : 2.5-3.0 kg/m<sup>2</sup>

Large tile : 4.0-4.5 kg/m<sup>2</sup>

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

## Packaging:

Available in 25 kg clean, recyclable paper bags.

## Storage:

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

## Shelf Life:

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

## Cleaning:

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

# TILEGRIP WPE

## Remarks:

- 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 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 Large format tiles apply, use buttering on back of tiles for application.
- For Non-porous tiles, consult Matex Technical Department for advice
- For external application, mix TILEGRIP WPE 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 vapour 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 WPE Material Safety Data Sheet.

MATEX Rev.21-0724

*MATEX warrants that its products are free from material and manufacturing defects. Instructions on how to use the product should be strictly followed to ensure effectivity and safe use. MATEX shall not be liable either directly or indirectly for any damages to personal, equipment or products that may occur as a consequence of the failure of any products application because it has no direct or continuous control over where or how its products are applied. It is the user's responsibility to acquire always the updated version of datasheets.*

