

TILEGRIP PU

High Performance Two Component Polyurethane Tile Adhesive

Description:

TILEGRIP PU is a two components high performance, flexible, thixotropic polyurethane based adhesive for ceramic tiles, mosaic, stone tiles. It is composed of polyurethane resin, chemical additives and selected filler to produce a class **R2T** adhesive. The mix product presents high quality adhesion with excellent durability and ageing resistance, tile adhesive.

TILEGRIP PU is suitable for fixing marble, ceramic tiles and stone, vertically and horizontally, for indoor and outdoor application on a variety of supports like, concrete, cement board, wood, steel, fiber cement, gypsum boards, prefabricated walls, PVC, screed, plaster, waterproofing membrane, reinforced polyester, etc.

Uses:

Ideally used as a tile adhesive in the following areas:

- Laboratories and medical facilities.
- Restaurants and shops with high foot traffic and extensive cleaning.
- Workshops where spillage of oils and chemicals is anticipated.
- Walls and floors of showers, bathrooms and kitchens.
- Swimming pools and water features.
- Can be applied to all type of tiles, mosaic, natural stones, marbles, for internal and external application
- Areas where hygiene and anti-bacterial specifications are required such as catering facilities.
- Heavy duty workshops and garages.
- For application on all types of porous and non-porous substrate.
- Large size ceramic and porcelain tiles.

Advantages:

- 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.
- Excellent adhesion to substrates with high mechanical properties.
- High deformability, with excellent durability over time.
- High workability and engineered pot life.
- Waterproofing features with high elasticity.
- Can be applied internally and externally.
- Non-sag properties suitable for natural stone application on facades.

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 application of existing ceramic, gres porcelain tiles, marble & stone covering on floor/walls must be firmly attached to the substrate and free of laitance or any substance which may affect adhesion. If required, clean the coverings with appropriate detergent and rinse with plenty of water.

Mixing:

Add contents of part B (hardener) to part A (base) and mix with a suitable paddle fitted to a slow speed drill (200 – 300 rpm) and mix for 3 minutes until a uniform, lump free consistency mix is achieved.

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Application:

With a notched trowel, spread TILEGRIP PU mix to the substrate evenly and in sufficient quantity with an average of 3 mm thickness layer. Sweep the second pass with the notched part of the trowel to even the distribution of the material.

With pressure and twist movement left and right push the tile into place over the adhesive to ensure full contact between the back of the tile and the adhesive bed. After application and fixing of tiles, remove excess adhesive with a cloth witted with hot water before adhesive dries.

Do not mix more than what can be applied within the pot life. Joints color grouting can be performed after 24 hours of tiling.

Standards:

- EN 12004 as R2T
- ISO 13007 – R2T

TECHNICAL PROPERTIES:

Color:	: Thixotropic Paste
Density	: 1.48 kg/ltr.
Pot life at 25°C	: 45 minutes
Open Time	: 50 min. at 25°C
Pull-out Resistance	: 3 N/mm ²
Bond shear strength	: >2.5 N/mm ²
Shrinkage	: NIL
Water absorption	: ≤ 0.05 g
Resistivity to chemicals	
Alkalis	: Good
Acid	: Good
Oil and grease	: Good
Deformability	: Highly deformable
Temperature Resist.	: -5°C to + 85°C
Temp. of Application	: +5°C to + 40°C
Setting Time	: 12 hours at 25°C
Trafficable after	: 24 hours
Grouting time	: 12 hours
Full Curing	: 7 days

Packaging:

TILEGRIP PU is available in 10 kg set of two part in plastic pail.

Coverage:

Solid bed	: 1.5 Kg/m ² per 1mm thickness 3mm notched
Trowel	: 2.3 Kg/m ² on smooth surface
Yield	: 6.8 Ltr. for 10 Kg kit

Storage:

Store in original packing in dry temperature central conditions (between 10-35°C) away from direct sunlight and high humidity levels.

Shelf Life:

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

Cleaning:

Clean tools with ARMOSOLVENT before the product dries.

Remarks:

TILEGRIP PU should not be applied onto surfaces likely to suffer from rising dampness or moisture content.

Health and Safety:

- Always use appropriate PPE including gloves, safety goggles and barrier cream. Avoid contact with skin and eyes.
- Should contact with skin and eyes occur, wash immediately with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately.
- Avoid inhalation and ensure adequate ventilation & suitable respiratory equipment if working in confined spaces.
- Do not expose product to fire or naked flames under any circumstances.
- Always refer to product safety datasheet for full health safety and handling recommendation.

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