

# TILEGRIP POXY AG

## High Performance Epoxy Adhesive and Grout for Tiles

### Description:

TILEGRIP POXY AG is a two component, epoxy based colored mortar applied as adhesive and grout for tiles. It is composed of epoxy resin tinted to the required color (PartA) and Hardener (PartB). Once mixed the product gives a thixotropic workable paste which can be easily applied as adhesive and /or grout for joints between all kinds of tiles.

### Uses:

TILEGRIP POXY AG is an ideal product for fixing and grouting of tiles where excellent mechanical, chemical resistance and hygienic properties are required. It can be applied internally and externally and for all types of tiles. Some applications include:

- Ceramic tiles, mosaic, natural stones, marble tiles.
- Laboratories and hospitals.
- Mechanical rooms and chemical facilities.
- Factories, workshops and service facilities.
- Showers, bathrooms and kitchens walls and floor.
- Swimming pools and water features.
- Catering facilities, food production and processing, central kitchens.
- For Industrial, commercial and institutional facilities with high-strength, chemical-resistant requirements.
- For heavy traffic areas such as subway stations, shopping malls and airport terminal buildings.
- For areas requiring stain-resistant grout such as countertops, vanities and laboratory tabletops.
- For installations in areas subject to high water use or submerged conditions.

### Advantages:

- Non-toxic, hygienic and anti-bacterial. Suitable for tiles grouting in food facilities, hospitals, catering facilities and heavily utilized kitchens.

- As an adhesive, can be applied for vertical and horizontal applications, Non-shrink, high adhesion
- Can be applied indoors and outdoors
- Applied for swimming pools and water bodies.
- Suitable in areas subjected to chemical aggressive attacks such as mechanical rooms, chemical factories and acid tanks.
- As grout, can be applied for joints from 3 to 10 mm.
- High abrasion resistance and chemical resistant.
- Stable colours even at heavy cleaning environments.
- Water resistant can be applied at wet areas.
- Can be applied on wall or floor and for internal and external joints.
- Impermeable with resistance to staining.

### Instructions for Use:

#### Surface Preparation:

##### For use as adhesive

- All substrate should be structurally sound, stable, dry, clean and free of any substance or condition that may reduce or prevent adhesion.

##### For use as grout

- Before grouting, make sure that the tiles or stones are firmly set and that the adhesive or mortar is completely dry.
- Remove all spacers, pegs, ropes and strings.
- Grout joints must be clean and free of standing water, dust, dirt and foreign matter. Remove excess adhesive or mortar from the joint area so that 2/3 of the tile depth is left available for grouting.
- Clean the tile or stone surface to remove dust, dirt, mortar, adhesive and other contaminants that may cause grout discoloration.

#### Mixing:

Mix the contents of component A (Base) with a low speed mixer for one minute to homogenize the

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content of the container. Add the contents of component B (hardener) to component A (Base) and mix until a uniform, lump free consistency mix is achieved. Ensure to avoid air entrapment due to over mixing which cause pinholes in the grout. Scrape the sides and bottom of the can to assure complete mixing. Leave the mix to rest for 5 minutes, then to apply the mix within the pot life.

## Application:

**Adhesive:** apply to the cleaned substrate 2-3mm of the mixed product with a notched trowel, allow the adhesive to spread all over the area of tiling, then press the tile in order to allow TILEGRIP POXY AG to ooze from the joints, directly wipe the joints with clean damp cloth and even the level in order to obtain a grouted colored joint with same color of adhesive, if the grouting to be conducted in a further stage skip the last point.

**Grout:** with rubber sided or a plastic trowel, spread the mixed product of TILEGRIP POXY AG to the substrate evenly and in sufficient quantity. Work the mix to the joints firmly and ensure full coverage. Sweep excess from the face of tiles using same trowel. Once confident that grout went through and covered all joints, clean the face of tile with a clean damp cloth with warm water before the drying of the epoxy grout. If the product dried it requires cleaning with ARMOSOLVENT. After 8 hours of application, apply proper cleaning to the face of the tile grouted area with a clean cloth and ARMOSOLVENT.

Do not apply TILEGRIP POXY AG on expansion joints or on support with high dynamic movements. All used tools should be cleaned with ARMOSOLVENT.

## Standards:

TILEGRIP POXY AG conforms to:

- ISO 13007-1 as RG
- ISO 13007-1 as R2
- ANSI A 118.3 -1992
- EN 13888 as RG

## Packaging:

TILEGRIP POXY AG is available in 8 kg kit of two parts, base (A), hardener (B) and bag of filler (C).

TECHNICAL PROPERTIES	
Color:	: White and grey, other colors upon request
Density (mixed)	: 1.65 Kg. / Lt.
Pot life time at 20°C	: 60 minutes
Bond Strength	: 1.80 N / mm <sup>2</sup>
Compressive Strength	: >55 N / mm <sup>2</sup>
Flexural Strength	: 30 N / mm <sup>2</sup>
Shrinkage (fully cured)	: 0.1 %
Water Absorption	: <0.1 %
Full Curing	: 7 days
Chemical resistant	
Acid solutions	: Very good
Alkali solution	: Very good
Oil	: Excellent
Detergents	: Excellent
Water, sea water, brackish	: Excellent
VOC	: <10 g/Lt.
Service Temperature	: -5°C to +80°C
Temp. of application	: +5°C to 35°C

## Storage:

Store in original packing in dry conditions away from direct sunlight and in temperature controlled warehouse.

## Coverage: (Grout)

Consumption expressed in kilograms in a unit of one square meter calculated as:

$$\frac{W \times D}{1,000} \times L \times 1.5 = (\dots) \text{ Kg. /m}^2$$

*W: width of Joint (mm)*

*D: depth of tile (mm)*

*L: linear meter of joint in 1m<sup>2</sup> of tiles*

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## Coverage: (Grout)

TILEGRIP POXY AG coverage of 1.5 sq. meter per set of 8 Kg. at 3.0 mm thickness of application depending of size of liter.

## Shelf Life:

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

## 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.
- Avoid direct contact with flames and fire.

## Limitations:

### For use as grout:

- Joint width should be between 2 and 10mm.
- Do not use for grouting white or translucent marble.
- Do not use in areas subject to excessive heat. Once cured, TILEGRIP POXY AG will resist temperatures up to 100°C.
- When used as a grout on exterior installations, color variations may occur over time, especially with lighter shades due to ultraviolet rays or environmental contaminants.

### For use as adhesive:

- Do not install over substrates containing asbestos.
- Do not exceed 6mm in epoxy mortar thickness under the tile.
- Do not apply over particle board, presswood, chipboard, gypsum floor-patching compounds or similar dimensionally unstable substrates.

## Protection:

- Protect grout installations for at least 7 days, and wait at least 3 days before checking hardness.
- Do not disturb grout or walk over installed tiles for at least 24 hours after setting. Do not allow heavy traffic over installed tiles for at least 48 hours after setting.
- TILEGRIP POXY AG should be cured for at least 7 days at 25°C before water immersion or exposure to chemicals. Longer time will be needed for colder temperatures.
- Do not allow any activity in the area that will cause dirt or debris to become embedded in the grout joint during curing time.

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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.

