

TILEGRIP POXY AG

High Performance Epoxy Adhesive and Grout for Tiles

Description:

TILEGRIP POXY AG is a two component, water cleanable epoxy based colored mortar applied as adhesive and grout for tiles. It is composed of epoxy resin tinted to the required color (Part A) and Hardener (Part B). 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, it 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, it can be applied for joints from 3 to 10 mm.
- High abrasion resistance and chemical resistant.
- Stable colours even in 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 tile adhesive

- All substrate should be structurally sound, stable, dry, clean and free of any substance or condition that may reduce or prevent adhesion.
- Moisture content of the substrate should not be higher than 5% and any necessary repair work must be one prior to tiling. Use MATEX Repair range of Products. For further advice, contact MATEX Technical Department.

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.

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Mixing:

Mix the contents of component A (Base) with a low speed mixer for one minute to homogenize the 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. Scrape the sides and bottom of the can to assure complete mixing. Leave the mix to rest for 2 minutes, then apply the mix within the pot life.

Application:

Tile 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 joins, directly wipe the joints with clean damp cloth and even the level in order to obtain a grouted colored joint with the same color of adhesive. I the grouting to be conducted in a further stage skip the last point.

Grout: with hard rubber float, 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 compaction and coverage. Sweep excess from the face of tiles using the same rubber float in diagonal direction to the tile joints. Allow the grout to get firm in the joint (approx. 10-15 minutes). Initial cleaning to be done using a clean and firm sponge lightly soaked with water gently wiping in a circular motion to form the joint profile. Once the grout is firm enough not to get washed out of the joint further cleaning can be done using warm water. Once the grout has set, to remove excess grout or haze clean the face of tile with a clean damp cloth with warm water before drying of the epoxy grout. If the product hardens, 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:

- ISO 13007-1 as R2T
- EN 12004-1 as R2T
- ANSI A 118.3 -1992
- EN 13888 as RG

TECHNICAL PROPERTIES	
Color	White and grey, other colors upon request
Mix Density	1.75 ± 0.03 kg/lit
Pot life time at 25°C	60 minutes
Water Cleanability	>80 min
Temp. of application	+5°C to 35°C
Full Curing	7 days
Bond Strength	1.80 N/mm ²
Compressive Strength (EN 12808-3)	>55 N/mm ²
Flexural Strength (EN 12808-3)	30 N/mm ²
Shrinkage (fully cured) (EN 12808-4)	0.1 %
Water Absorption (EN 12808-5))	<0.1 %
Chemical resistant Acid solutions Alkali solution Oil Detergents Water, sea water, brackish	Very good Very good Excellent Excellent Excellent
Service Temperature	-5°C to +80°C
VOC	<10 g/Lt.

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

Coverage: (Grout)

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

$$\frac{W \times D}{1,000} \times L \times 1.75 = (...) \text{ Kg. /m}^2$$

W: width of Joint (mm)

D: depth of tile (mm)

L: linear meter of joint in 1m² of tiles

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Coverage: (Adhesive)

TILEGRIP POXY AG coverage of approx. 1.2 sq. meter per set of 6 Kg. at 3.0 mm thickness of application
*Coverage rate is an approximate value, and subject to actual site conditions.

Packaging:

TILEGRIP POXY AG is available in 6 kg kit of two parts, base (A), hardener (B).

Storage:

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

Shelf Life:

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

Limitations:

For use as grout:

- Joint width should be between 3 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.

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 POXY AG Material Safety Data Sheet.

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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.



TILEGRIP POXY WB

Water Based Two Component Epoxy Tile Adhesive

Description:

TILEGRIP POXY WB is a two-part water cleanable epoxy adhesive. It consists of epoxy resins, chemical additives and selected filler. The mixed product presents high quality adhesion strength and high resistance against chemicals. It is applicable in harsh environments and heavy traffic areas as a durable tile adhesive. TILEGRIP POXY WB is suitable for fixing all types of wall and floor tiles vertically and horizontally, and it is environmentally friendly.

TILEGRIP POXY WB adheres perfectly to a variety of supports like: concrete, cement boards and cement block, bituminous waterproofing with aggregates, gypsum and cement boards. It is suitable for internal and external application and can be applied in restricted areas as the product has very low odor. The product can be spread easily and can be cleaned with water while the mix is still fresh

Uses:

TILEGRIP POXY WB is designed to be used as an adhesive for tiles when heavy duty function is required including high traffic area, places exposed to thermal shocks or chemicals, permanent wet areas, etc. Some applications are:

- Laboratories and medical facilities.
- Restaurants and shops with high foot traffic and extensive cleaning.
- Wet areas (bathrooms, showers) of public nature.
- Hygiene areas like food processing plants, breweries, dairies.
- Walls and floors of showers, bathrooms and kitchens.
- Swimming pools and water features.

Advantages:

- Water based, environmentally friendly and low odor.
- 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 with rapid load bearing strength.
- Suitable for vertical and horizontal applications
- Chemically resistant, applicable in areas with chemical exposure and spillage.
- High workability and engineered pot life.
- Suitable for wet area application as the adhesive has waterproofing features.
- Water cleanable, no flammable solvents required to clean tools or finished work.
- Non-sag properties suitable for natural stone application on facades.

Instructions for Use:

Surface Preparation:

All concrete 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.

Moisture content of the substrate should not be higher than 5% and any necessary repair work must be done prior to tiling. Use MATEX Repair range of products. For further advice, contact MATEX Technical Department.

Mixing:

Before mixing the two components, the base and hardener components should be individually stirred to re-disperse any settlement. Add contents of part B (hardener) to part A (base), and mix with a slow speed drill (200 – 300 rpm) fitted with a suitable paddle. Mix 3-4 minutes until a uniform, unified color, lump free

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consistency mix is achieved. While mixing, scrape the sides and bottom of the can to assure complete mixing of all the contents.

Application:

Ensure that tiles should be placed within the workable time of the adhesive. With a notched trowel, spread the mixed TILEGRIP POXY WB to the substrate evenly and in sufficient quantity. 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 wet adhesive. Work it in properly to ensure full contact between the back of the tile and the adhesive. Some of the adhesive will ooze from the edges of the tile while fixing. Remove the extra mix and reuse before it dries.

After application and fixing of tiles, remove excess adhesive with a cloth wetted with hot water before adhesive dries. Joints grouting between tiles can be filled after 12 hours of tiling for walls and 24 hours for floors.

When applying tiles of sizes larger than 45x45 cm, it is necessary to spread the adhesive also to the backside of the tile and then place the tiles into the notched adhesive bed.

Standards:

- ISO 13007-1 as R2T
- ANSI A 118.3
- EN 12004 R2T

TECHNICAL PROPERTIES	
Color	Grey, white
Wet Density	1.85 ± 0.03 kg/lit
Pot life at 25°C	60 minutes
Temp. of Application	+5°C to + 40°C
Trafficable after	24 hours
Grouting time	12 hours
Full Curing	7 days
Pull-out Resistance	3 N/mm ² (failure within concrete)
Adhesion Strength	2.0 N/mm ² cohesive failure on concrete

Compressive strength (EN 12808-3)	>50 N/mm ²
Tensile strength	16 N/mm ²
Flexural strength (EN 12808-3)	12 N/mm ²
Shrinkage (EN 12808-4)	0.8 mm/m
Water absorption (EN 12808-5)	≤ 0.05 g
Resistivity to diluted chemicals	Excellent
Service Temperature	-5°C to + 80°C

Coverage:

Solid bed : 1.85 Kg/m² per 1mm thickness

3mm notched Trowel : 2.2 Kg/m² on smooth surface

Yield : 5.5 Ltr. for 10 Kg kit

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

Packaging:

TILEGRIP POXY WB is available in 10 kg set of two-part metal containers.

Storage:

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

Shelf Life:

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

Cleaning:

Excess mortar of adhesive should be cleaned from the surface of the tile with wet cloth or sponge while the mortar is fresh. Once the material gets hardened, mechanical removal will be necessary.

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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 POXY WB Material Safety Data Sheet.

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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.

