EPO GROUT

Go to TDS

Stucco

TWO-COMPONENT ACID-RESISTANT EPOXY GROUT FOR JOINTS OF AT LEAST 1 MM UP TO 10MM.

PRODUCT DESCRIPTION

Epo Grout is an advanced high-performance, two-component, bacteriostatic, epoxy grout for industrial application. It is designed for virtually all residential and commercial installations and offers optimum performance on the most demanding exterior or interior applications. Epo Grout is a fast setting suitable for joints 1 mm – 15 mm wide on floors, walls, or pools. Epo Grout is a resinus (R), for grouting (G) improved (2), class RG2 according to EN 13888. Epo Grout is a two-component, epoxy resin-based grout, with silica sand and other special components. It has an excellent resistance to acids, easy workability and is very easy to clean.

FIELD OF APPLICATION

· Grouting floors and walls in the food industry.
· Grouting industrial floors and walls where high mechanical resistance and resistance to acid attack is required.
· Grouting swimming pools
· Grouting basins containing salt or thermal water.
· Grouting tanks containing aggressive chemicals.
· Grouting ceramic tiles on laboratory benches, kitchen work surfaces, etc.
· Acid-resistant bonding of tiles.
· Bonding marble doorsteps and window-sills.
· Bonding tiles in plastic reinforced by fiber glass swimming pools.
· Bonding special pieces of tiles.

RECOMENDATION

· For grout ceramic floors subject to attack by acids and aromatic hydrocarbons.
· Do not use for flexible expansion joints or for joints subject to movement.
· The edges of tiles must not be wet or contaminated with cement, dust, oil, grease, etc.
· If porcelain tiles are grouted with a contrasting color carry out preliminary tests beforehand.
· Always carry out preliminary tests before grouting stone or ground porcelain with a porous or rough surface.
· Do not add water or solvents to increase workability.
· Use the product at temperatures between +12°C and +30°C.
· If hardened and the product has to be removed from the joints, use an industrial hot air blower.
· If hardened residues of the product remain attached to the tiles, use Epo Cleaner for cleaning.
· If mixed with Glitter or Metallic pigments the product is not suitable for swimming pools or external use.

SUITABLE SUBSTRATES

· Ceramic Tile
· Porcelain tile
· Quarry Tile
· Clay Tile
· Natural Stone.

LIMITATIONS

· Do not mix with other cement or components.
· Do not use an acidic base product to clean colored grout joints.
· Do not apply in joints over 15 mm and less than 1mm.
· Do not apply in temperatures above 30°C and below +12°C.
· Grouts for ceramic tiles, pavers, bricks, and stone do not replace the waterproofing membranes.
· Job site conditions can affect the final color of colored grouts.
· It is recommended to use expansion joints where necessary

APPLICATION PROCEDURE

A) Preparing the substrate

The joints must be dry, clean, free from dust and empty down to at least 2/3 of the thickness of the tiles. Any adhesive or mortar which has seeped into the joints while laying the tiles must be removed while still fresh. Before grouting, make sure the installation mortar or adhesive has set and that most of the moisture has evaporated.

B) Preparing the product

Pour the catalyst (component B) into the container of component A and mix well until a smooth paste is obtained. We recommend using a low-speed electric mixer to guarantee perfect blending, and to avoid overheating of the mix which would reduce the workability time. Where required, add Glitter or Metallic Pigments once the blend has been mixed. Use the mix within 45 minutes of preparation.

C) Applying the product

Apply the product with a rubber spatula, directing across the joints, in order to remove the excess of the grout, hold the spatula at a 90° angle and pull it diagonally across the joints. Wait for the grout to partially dry (become opaque in about 5-10 minutes) and proceed with the final cleaning of the tile's surface using a wet sponge and rinsing it frequently. The total cleaning can be done the next day with a dry cloth. When the grout is still soft, cleaning too early may remove some of the grout from the joints and may cause color variation. It is recommended to apply in small enough areas to grout and clean before the grout dries out too much.

D) Cleaning

After grouting floor and wall coverings must be cleaned while the grout is still fresh. Wet the grouted surface and emulsify with a sponge. Take care not to drag grout from the joint. The sponge must be saturated with water when cleaning coverings. The liquid residual may be removed with the same sponge, which must be replaced when it becomes too impregnated with resin, and the same technique may be used when finishing off the grouted joints. The use of an abrasive pad instead of the traditional sponge for cleaning joints is recommended in case of tiles with a particularly rough or irregular surface. The liquid residual may in any case be removed with the cellulose sponge. Epo Cleaner, a special cleaning solution for epoxy grout may also be used for the final cleaning cycle.

COVERAGE / CONSUMPTION

The consumption of EPO GROUT varies according to the size of the joints and the size and thickness of the tiles.

PACKAGING

Epo Grout is supplied in:
– 5 kg plastic buckets.

SHELF LIFE-STORAGE

Original sealed bags of this product are guaranteed to be
of first quality for 24 months if stored off of the ground in a dry area. The high humidity will reduce the shelf life of the bagged product.

SAFETY INSTRUCTION

EPO GROUT component A is irritant for the skin and the eyes, both components A and B may cause sensitization in those subjects sensitive to such substances. EPO GROUT component B is corrosive and may cause burns. The product contains low molecular weight epoxy resins that may cause sensitization if cross-contamination occurs with other epoxy compounds. When applying the product, we recommend the use of protective gloves and goggles and to take the usual precautions for handling chemical products. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention. EPO GROUT component A is also hazardous for aquatic life. Do not dispose of this product in the environment. For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet. PRODUCT ONLY FOR PROFESSIONAL USE.

TECHNICAL DATA

Product identity		
	component A	component B
Consistenza	thick paste	thick paste
Colour	white	beige
Density (Kg/Lt)	1.65	1.05
Dry solids content (%)	100	100
Brookfield viscosity (mPa·s)	800.000 (# F - 5 rpm)	550.000 (# F - 5 rpm)
Classification	EN 13888	
Application data (at +23°C and 50% R.H.)		
Mixing ratio	90	10
Brookfield viscosity of mix (mPa·s)	1.000.000 (# F - 2,5 rpm)	
Pot life of mix	45 minutes	
Application temperature range	+12°C a +30°C	
Open time (according to EN 1346)	60 minutes	
Adjustment time	120 minutes	
Set to light foot traffic	after 24 hours	
Ready for use	after 4 days	

Final performances

Adhesion strength according to EN 1348 (N/mm²)	
– Initial adhesion strength (after 28 days):	7.5
– Adhesion strength after heat:	6.2
– Adhesion strength after water immersion:	6.9
– Adhesion strength after freeze-thaw cycles:	6.9
Bond (shear strength) according to EN 12003 (N/mm²):	
– initial bond:	27
– after immersion in water:	27
– after thermal shock:	27
Flexural strength (EN 12808-3) (N/mm²):	47
Compressive strength (EN 12808-3) (N/mm²):	70
Resistance to abrasion (EN 12808-2):	55
Water absorption (EN 12808-5) (g):	0.01
Temperature resistance after final cure:	from -30°C to +90°C

EMISSION CLASS FOR BUILDING MATERIAL
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