

EPO EPOXY TILE ADHESIVE

Epoxy Resin Based Tile Adhesive



DESCRIPTION

EPO EPOXY TILE ADHESIVE is a solvent free three component epoxy resin based adhesive consisting of pre-weighed quantities of base, hardener and specially selected filler. The components are mixed together to give a smooth non-sag paste adhesive.

TYPICAL APPLICATIONS

EPO EPOXY TILE ADHESIVE is a high performance epoxy tile adhesive with exceptional chemical resistance for bedding tiles in heavy duty environments. It is used for operation bedding of tiles on horizontal & vertical surfaces. It is used wherever excellent mechanical properties, high chemical resistance combined with a high standard of finish is required such as in swimming pools, hospitals, kitchens, slaughter houses, soft drink factories and steam cleaned areas.

ADVANTAGES

- Excellent waterproofing, unaffected by water when cured.
- Resistant to frost and weathering, suitable for indoor and outdoor use.
- Recommended for vertical and horizontal applications with good adhesion properties.
- Good adhesion to stone, cast stone, engineered stone, Marble and Granite.
- Factory quality controlled pre-weighed quantities reduces site errors.
- Good adhesion to steel, concrete and tiles.
- Crack free curing and setting without shrinking.
- Highly resistant to a wide range of industrial chemicals.
- Fast application possible and is easily cleaned off with water during initial set.
- Full cured product is resistant to Bacterial & Fungal growth.

STANDARDS

ASTM C 881 TYPE 1 GRADE 3
ANSI A 118.3
ANSI A 108.4
BS EN 12004-R2T

PRODUCT DATA

Form	Paste Like
Colour	White
Packing	22 Kg (A+B+C)
Layer Thickness	3mm to 5mm
Consumption	Approx. 5 -10 Kg/m ² depends upon thickness
Shelf life	12 months if stored in dry and cool place without opening package.

TECHNICAL SPECIFICATION

Test Name	Standard	Average Result
Mix Density @ 25°C	--	1.90 ± 0.10 Kg/Ltr
Pot life @ 25°C	--	60 ± 15 min
Service temp	--	10 to + 80°C
Initial Set @ 25°C	--	4 - 5 hours
Dry Time (Hard dry) @ 25°C	--	24 hours
Open time @ 25°C	--	60-90 min
Compressive strength 10 days	ASTM C 579	> 55 N/mm ²
Tensile Strength 10 days	ASTM C 307	> 7 N/mm ²
Flexural Strength 10 days	ASTM C 580	> 12 N/mm ²
Pull-off Adhesion 7 days	ASTM D 4541 /BS 5980	> 7 kN
Chemical resistance	--	Resistance to acid, alkali ,diesel ,petrol and gasoline



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APPLICATION PROCEDURE

SURFACE PREPARATION

Ensure that substrates to be tiled are structurally sound free from grease and oil and do not have excessive laitance. Surface should be dry, clean and dust free. Moisture content of the surface should not be higher than 5% and any necessary repair work should be carried out prior tiling. Good surface preparation is necessary to ensure maximum in-service properties and long term performance.

MIXING

Mix by adding all the Part B to the Part A pack stir for 1 minute, and then add Part C component and then stirring thoroughly for 2 - 3 minutes until a smooth, well mixed colour and consistency is obtained. Mixing by use of a slow speed drill and mixing paddle is preferred. Not recommended part mixing.

BEDDING

Apply the mixed **EPO EPOXY TILE ADHESIVE** to the substrate using a suitably sized notched trowel depending on the size and thickness of the tile. As a bed of approx. 3-5 mm thickness over a working area of a size which can be properly tiled within the pot-life of the material. For floors apply as a "solid bed". On walls the bed may be applied horizontally ribbed by use of a notched trowel.

FIXING TILES

Tile should be pressed into place using twisting action and properly aligned. In the case of wall tiles, begin at the bottom and work upwards, and ensure complete 100% of the tile back is in contact with the epoxy tile adhesive. Ensure that the required joint width is left around each tile and is properly spaced out.

CLEANING

After bedding any surplus material should be removed before its sets by use of damp cloth or squeegee. Good workmanship to ensure removal of surplus material before it sets is essential throughout the works.

EQUIPMENT CARE

Tools and equipment may be cleaned immediately after use with water. If necessary, **EPO SOLVENT** can be used.

PRECAUTIONS

SPILLAGE

Spillage should be absorbed with sand or earth etc., and disposed in accordance with local regulations. Clean tools and equipment with water/solvents immediately after use.

HEALTH AND SAFETY

EPO EPOXY TILE ADHESIVE should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalation of vapours. Some people are sensitive to epoxy resins, therefore, protective gloves, goggles and barrier creams should be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus must be used. Fully cured resins are inert and hence harmless.

If mixed resin comes in contact with skin, it must be removed before it gets dry by washing with soap and plenty of clean water. If swallowed, seek medical attention immediately. Do not induce vomiting.

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