

EPO FIX PLUS

High Performance Cement Based Tile and Ceramic Fixing Mortar



DESCRIPTION

EPO FIX PLUS is supplied as a ready to use single component product, only addition of water needed to produce a cohesive, sticky, highly adhesive thin bed tile and ceramic fixing mortar. **EPO FIX PLUS** powder is a blend of Portland cement, selected fine sand, polymer, water retention agents and specially selected chemicals to enhance workability and application ease.

USES

EPO FIX PLUS is recommended for following applications:

- Fixing ceramic tiles on walls and floors.
- Bonding quarry tiles direct on concrete or sand cement renderings and clean non-glazed old terrazzo tiles.
- Fixing mosaic, slip brick, natural stones and artificial stone tiles.

EPO FIX PLUS is suitable for interior as well as exterior conditions.

ADVANTAGES

- **Easy to use:** mixed material is easily trowel applied and stickiness in the wet stage affords easy fixation of tiles.
- **Constant quality:** factory quality controlled pre-packed material.
- **Adhesion:** Excellent adhesion in the wet stage during application and in the fully cured stage.
- **Water resistance:** Excellent water resistance hence recommended for swimming pools, dairies, food processing areas, bathrooms etc.
- **Economical:** Low thickness of application affords a better cost and performance alternative to conventional method based on neat cement.

PRODUCT DATA

Form	Powder
Colour	Grey
Packing	20 Kg Kraft Bag
Mixing Ratio	4.5 Kg Water for 20 Kg Powder
Layer Thickness	2mm to 5mm
Coverage	2.5 –5 Kg/m ² , Depending on the surface
Shelf life	12 months, indoor, Dry conditions

TECHNICAL SPECIFICATION

Test Name	Standard	Average Result
Appearance	KSS 521	Smooth, No sign of disintegration homogenous, no blistering
Density @25°C	ASTM D 1875	1.70±0.10 Kg/Ltr
Pot Life @25°C	--	120 ± 30 min
Open Time Tile Fixing(25°C)	---	30 ± 15 min
Adjusting Tiles After Fixing(25°C)	---	10 ± 3 min
Adhesion Strength Condition A(28days) Condition B (7 days Std Conditions +14 days water immersion) Condition C (14 days Std conditions +14 days @70°C) Condition D (7 days Std Conditions +14 days water immersion+ 25 Freeze/thaw cycle)	BS 5980	> 8.8 kN > 5.7 kN > 5.2 kN > 5.0 kN
Open Time by Adhesion Strength 5 minutes 10 minutes 15 minutes 20 minutes	E N 1346	> 2250 N > 1400 N > 1200 N > 1100 N
Resistance to Mould growth	BS 5980	Resistant
Adjustability Condition 1 (5 minutes) Condition 2 (10 minutes)	BS 5980	> 800 N > 500 N
Slip Resistance	KSS 521	0.33 mm
Tensile Strength Condition 1 (14 days under Std Condition) Condition 2 (7 days normal Lab Conditions 14 days water immersion)	BS 5980	> 1000 N > 500 N
VOC Content	---	Nil

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Ver 01/21

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SURFACE PREPARATION

Ensure the background on which tiles are to be fixed is dry, sound and free from any contamination. Tile should be fixed dry and not soaked with water. Allow new concrete and brick work at least 4 week curing and new cement/sand screed or render at least 2 weeks curing before fixing tiles.

MIXING INSTRUCTIONS

4.5 ± 0.5 Kg of water should be mixed with 20 Kg of **EPO FIX PLUS**. For part mixes use 1 part of water and 4 parts of powder by weight. Mix for 2-3 minutes with suitable mixer/drill acceptable before application.

APPLICATION AND TILES FIXATION

Spread only sufficient **EPO FIX PLUS** over small areas of 1 sq. meter approximately that can be covered immediately with tiles in 30 minutes at 25°C. Tiles can be adjusted for 7 to 12 minutes after initial positioning.

Comp the mortar with a solid bed semi notched trowel or a notched trowel and press tiles firmly into position with a slight twisting motion to ensure solid bedding leaving no voids behind the tiles.

If preferred the **EPO FIX PLUS** can be additionally buttered on the backs of the tile to ensure tiles make full contact with the substrates.

Under normal conditions, the tiles installed with **EPO FIX PLUS** can be subjected to foot traffic 24 hours after fixing. Leave the joints about 3mm wide around floor tiles and 2mm wide around wall tiles. Clean and take out any tile mortar trapped between the tiles and insert plastic spacers.

Grouting: Grouting may be carried as soon as the tile bed is sufficiently firm normally after 24 to 48 hours. Use **EPO FUGAFLEX** range of products for this purpose. Do not use any neat cement/water slurry for grouting the tile joints.



PRECAUTIONS

Cleaning: All equipment must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage system.

Protection: All works must be protected from rain, frost until fully hardened and shaded from direct sunlight

STANDARDS

ANSI- A 118.4-1999
BS-5980-TYPE 1 CLASS AA
BS-EN 12004-C2TES1

HEALTH AND SAFETY

EPO FIX PLUS is non –toxic but mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged irritation, seek medical advices.

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