

DESCRIPTION

EPO FIX 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** powder is a blend of grey or white cement, selected fine sand, water retention agents, polymer and specially selected chemicals to enhance workability and application ease.

USES

EPO FIX is recommended for following applications:

- Fixing ceramic and porcelain tiles on concrete walls and floors.
- Fixing slip brick, natural stones and artificial stone tiles on concrete walls and floors.

Both grades of **EPO FIX** are suitable for interior as well as exterior conditions.

ADVANTAGES

- **Easy to use:** mixed material is non-sag 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.
- **Application:** Recommended for both wall and floor application

PRODUCT DATA

Form	Powder
Colour	Grey & White
Packing	20 Kg Kraft Bag
Mixing Ratio	5.0 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	ASTM D 1875	1.80 ± 0.10 Kg/Ltr
Pot Life@25°C	--	100 ± 30 min
Open Time Tile Fixing(25°C)	---	30 ± 15 min
Adjusting Tiles After Fixing(25°C)	---	10 ± 3 min
Shear Adhesion Strength		
Condition A	BS 5980	9.1 kN
Condition B		6.1 kN
Condition C		5.5 kN
Condition D		5.4 kN
Open Time by Adhesion Strength	BS EN 1346	
5 minutes		> 3.8 N/mm ²
10 minutes		> 3.8 N/mm ²
15 minutes		> 3.8 N/mm ²
20 minutes		> 3.8 N/mm ²
30 minutes	> 0.90 N/mm ²	
Resistance to Mould growth	BS 5980	Resistant
Adjustability	BS 5980	
Condition 1 (5 minutes)		> 800 N
Condition 2 (10 minutes)	> 500 N	
Slip Resistance	KSS 521	0.33 mm
Tensile Adhesion Strength	BS EN 12004	
Condition A		> 3.8 N/mm ²
Condition B		> 3.8 N/mm ²
Condition C	> 3.8 N/mm ²	
VOC Content	---	Nil

Note: All the above specifications are for **EPO FIX GREY**

RECOMMENDED SUBSTRATES

- Concrete
- Cement mortar beds
- Concrete masonry
- Cement plaster
- Brick masonry
- Cement terrazzo
- Gypsum board (only Interior use)
- Ceramic tile and stone, when mixed with **EPO LATEX** range of products.

Note: In all cases **EPO FIX** must be added to the water and while using **EPO LATEX** range of products, water/powder ratio to be adjusted to get desired consistency.

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.

Note:- Priming with **EPO LATEX SBR** is recommended for gypsum board/plaster board for better bonding prior to **EPO FIX** application.

MIXING INSTRUCTIONS

5.0 ± 0.5Kg of water should be mixed with 20Kg of **EPO FIX**. 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** White or grey 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** 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** 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.

In all cases for additional enhanced performance properties, add 1 Kg of **EPO LATEX** range products to the gauging water until the desired consistency is achieved.

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-C2TE

HEALTH AND SAFETY

EPO FIX 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 advice.