

## DESCRIPTION

**EPO FIX EP** is supplied as a ready to use two component Acrylic latex polymer modified product to produce a cohesive, sticky highly adhesive thin bed tile fixing mortar. **EPO FIX EP** powder is a blend of grey or white cement, selected fine sand, water retention agents and specially selected chemicals to enhance workability and application ease.

## USES

**EPO FIX EP** 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 tiles over timber and existing vinyl tiles if the surface are properly cleaned and primed with a brush coat of **EPO FIX EP PART-A**
- Fixing mosaic, slip brick, natural stones and artificial stone tiles.

Both grades of **EPO FIX EP** are 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.
- **Durability:** Acrylic polymer modification ensures good performance in adverse climatic conditions through improved flexibility impact resistance and thermal shock resistance.
- **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.
- **Waterproofing:** when applied as a uniform layer using semi-notched trowel it acts a water proof fine barrier.

## PRODUCT DATA

<b>Form</b>	Powder +Liquid
<b>Color</b>	Grey & White
<b>Packing</b>	25 Kg (Part B-20 Kg+ Part A 5Kg)
<b>Mixing Ratio</b>	5.0 Kg Polymer for 20 Kg Powder
<b>Layer Thickness</b>	2mm to 5mm
<b>Coverage</b>	2.5 - 5 Kg/m <sup>2</sup> ,Depending on the surface
<b>Shelf life</b>	12 months, indoor, Dry conditions

## TECHNICAL SPECIFICATION

Test Name	Standard	Average Result
<b>Density</b>	ASTM C138	1.7±0.05 Kg/ltr
<b>Pot Life@25°C</b>	---	90 -120 min
<b>Open Time Tile Fixing(25°C)</b>	---	30 min
<b>Adjusting Tiles After Fixing(25°C)</b>	---	7-12 min
<b>Compressive Strength (7 days)</b>	ASTM C 109	>20 N/mm <sup>2</sup>
<b>Tensile Adhesion</b> Condition A(28days) Condition B (7 days) Condition C (14 days) Condition D (7 days)	1348:2007	2.0 N/mm <sup>2</sup> 1.4 N/mm <sup>2</sup> 2.5 N/mm <sup>2</sup> 2.2 N/mm <sup>2</sup>
<b>Shear Strength (28 days)</b>	ANSI A 118.4	> 2 N/mm <sup>2</sup>
<b>Pull off Adhesion Test (7days)</b>	ASTM D 4541 /BS 5980	> 3 kN
<b>Water Absorption</b>	ANSI A 118.4	< 0.7%
<b>VOC Content</b>	---	Nil



## 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. Timber floors must normally be strengthened with a 12 mm plywood overlay, screwed at 300mm centers. The floor must be adequately ventilated underneath and must be rigid and stable to receive tiles.

Any existing patching must be sound and any defective areas made good before laying new tiles. Existing vinyl tiles must be securely bonded to their base and free of polish, grease, etc. Timber and vinyl surface must be primed, before tiling with **EPO FIX EP PART A** and allowed to dry.

## MIXING INSTRUCTIONS

5 Kg of **EPO FIX EP PART-A** should be mixed with 20 Kg of **EPO FIX EP PART- B**. For part mixes use 1 part of polymer to 4 parts of powder by weight. Mix for 3 minutes with suitable mixer/drill acceptable, wait for 5 minutes, remix and then use. This method provides the polymers and other chemicals to take the desired effect.

**Note:** To adjust the required consistency of Tile fix, water can be added up to 0.5 liter accordingly depends upon the site requirement

## APPLICATION AND TILES FIXATION

Spread only sufficient **EPO FIX EP** 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 EP** 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 EP** 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

**Storage:** Shelf life is 12 months when stored in dry conditions at moderate temperature and humidity.

## STANDARDS

ANSI- A 118.4-1999  
BS-5980-TYPE 1 CLASS AA  
BS-EN 12004-C2TE

## HEALTH AND SAFETY

**EPO FIX EP** 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.