

EPO FIX ULTRA

High Performance, Highly Deformable, Modified Cementitious, Tile and Ceramic Fixing Mortar



DESCRIPTION

EPO FIX ULTRA is supplied as a ready to use single component product, only addition of water needed to produce a highly deformable improved cementitious, slip resistant, thin bed tile and ceramic fixing mortar with extended open time. **EPO FIX ULTRA** is a blend of Portland cement, selected fine sand, polymer, water retention agents and specially selected chemicals.

USES

EPO FIX ULTRA is recommended for the following applications:

- Fixing ceramic tiles mosaic, slip brick, natural stones and artificial stone tiles on walls and floors.
- Laying large format heavy tiles in internal and external applications
- Suitable for tile and ceramic application for high traffic flooring
- Laying on swimming pools and wet areas like dairies, food processing areas, bathrooms etc.
- Laying on flexible substrate and dry walls like gypsum and cement boards
- Tile over tile applications
- Fixing tile over Radiant heat flooring

ADVANTAGES

- **Easy to use:** Easy to apply, non-sag with good workability.
- **Constant quality:** Factory quality controlled pre-packed material.
- **High bond strength:** Exceptional bond strength between all types of tiles and substrates normally used in the building industry.
- **High deformability:** Excellent ability to overcome the deformation in the substrate and tiles
- **Extended open time:** Long open time and adjustability makes fixing easier

PRODUCT DATA

Form	Powder
Colour	White
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	--	Smooth, No sign of disintegration homogenous, no blistering
Density @25⁰C	--	1.60 ± 0.10Kg/Ltr
Pot Life @25⁰C	--	120 ± 30 min
Adjusting Tiles After Fixing(25⁰C)	--	10 ± 2 min
Initial Tensile adhesion strength	EN 1348	≥1 N/mm ²
Tensile adhesion strength after water immersion	EN 1348	≥1 N/mm ²
Tensile adhesion strength after heat ageing	EN 1348	≥1 N/mm ²
Tensile adhesion strength after freeze-thaw cycles	EN 1348	≥1 N/mm ²
Open Time by Adhesion Strength	E N 1346	≥ 0.5 N/mm ² after 30 minutes
Slip resistance	EN 1308	≤ 0.5 mm
Transverse Deformation	EN 12002	≥ 5mm

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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 ± 0.5Kg of water should be mixed with 20 Kg of **EPO FIX ULTRA**. 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 ULTRA** 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 8 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 ULTRA** 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 ULTRA** 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.

YIELD

20Kg gives a yield of Approx.16 Liters at 22.5% water

One 20Kg bag covers 16 square meters at 1.0 mm thickness.

LIMITATIONS

Do not use on metal, plastic or concrete coated with a thin sealing film lacking optimal consistency.

Do not apply if the substrate has moisture content above 3 %.



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

BS-EN 12004-C2TES2

HEALTH AND SAFETY

EPO FIX ULTRA 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.

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