

MIPRO-EPR

EPOXY PATCH REPAIR MORTAR FOR FAST AND HIGH STRENGTH REPAIR

DESCRIPTION

MIPRO-EPR is a 3 component high strength, solvent-free epoxy resin repair mortar with High quality graded quartz filler and special mineral filled for high strength and excellent abrasion resistance. MIPRO-EPR is a three part mortar, supplied in kit size for ready to use at on-site for easy mixing and use.

USES

MIPRO-EPR is used for the repairing of concrete and plastered surface for fast and permanent repair. This will give high strength, high abrasion resistance and excellent chemical resistance. This mortar is manufactured for horizontal surface application but can be applied vertically also when add special thixotropic paste in the system to avoid sagging.

It is ideally suited for all kind of damage and corroded concrete surface including acid tanks, sea walls, commercial & industrial floors. MIPRO-EPR can be used for emergency repairs where fast strength gain is important.

SPECIAL FEATURES

- Very High Physical Strength
- Fast Development Strength – Minimum Down Time
- Excellent Abrasion resistance thus suitable for high traffic areas
- Excellent acid/alkali/Chemical Resistance
- Excellent Bond Strength to damp Concrete Surface
- impermeable to water

PHYSICAL PROPERTIES

Test method	Typical result
Compressive strength Kg/cm ² @ 7 days	900 Kgs/cm ²
Flexural strength Kg/cm ² @ 7 days	275 Kgs/cm ²
Tensile strength Kg/cm ² @ 7 days	140 Kgs/cm ²
Pot life	30 minutes @ 25 C
Initial hardness	24 hours
Full cure	7 days
Fresh wet density	Approx. 2000kg Per M ³

CHEMICAL RESISTANCE

Citric acid 10%	Resistant
Tartaric acid 10%	Resistant
Hydrochloric acid 10%	Resistant
Sodium Hydroxide 30%	Resistant
Diesel fuel / Petrol 100%	Resistant
Sulphuric acid 10%	Resistant
Sulphuric acid 50%	Not Resistant
Sugar solutions Saturated	Resistant
Lactic acid 10%	Resistant
Hydrocarbons 100%	Resistant
Phosphoric acid 50%	Resistant
Nitric acid 5%	Resistant
Acetic acid 5%	Resistant

CHEMIPROTECT ENGINEER

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SURFACE PREPARATION

Clean the concrete surface with suitable means to remove any dust, loose material, plaster, previously applied coating/paint, grease and algae. Grind the surface to remove laitance. Repair mortar to a depth of at least 5mm to avoid featheredging and to provide a square edge.

PRIMER APPLICATION

The substrate should be primed using MIPRO-PR Epoxy primer. The primer should be mixed in the proportions supplied, adding the entire contents of Part – B to the Part - A. The two components should be thoroughly mixed together, for 3 minutes. The mixed primer should be applied well into the prepared concrete surface. If the primer is absorbed within 30 minutes, a second coat should be applied before continuing. MIPRO-EPR can be applied as soon as the primer has started to gel but still has surface 'tack'. This is normally between 30 minutes and 4 hours dependent on the ambient and substrate temperatures. If the primer cures hard, a second application must be made before application of MIPRO-EPR.

MIXING

Mix MIPRO-EPR is thoroughly to produce a fully homogenous, trowellable mortar. Part – A & Part – B should be mixed thoroughly. Add the filler slowly with the stirrer running and continue for 2 to 3 minutes until all the three parts are thoroughly mixed.

APPLICATION

Apply the mixed MIPRO-EPR mortar to the prepared concrete surface by steel trowel, pressing firmly into place to ensure good adhesion and full compaction. Thoroughly compact the mortar. Finish mortar with trowel. MIPRO-EPR mortar can be applied in sections up to 50mm thickness in horizontal locations or up to 12mm thickness in vertical locations in a single application and without the use of formwork.

Note: The minimum applied thickness of MIPRO-EPR is 5mm.

COVERAGE

PRODUCT	Coverage
MIPRO-EPR	30 Kgs Pack will cover 3 M2 at 5mm thickness
MIPRO-EP Primer	4 to 5 M ² Per Kg

Note: The coverage figures given above are theoretical due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.

SHELF LIFE & STORAGE

All products have a shelf life of 12 months at 30 C if kept in a dry store in the original, unopened bags or packs. Storage conditions Store in dry conditions in the original. Unopened bags or packs. If stored at high temperatures, the shelf life may be reduced to 4 to 6 months.

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