

POLY PAIR EPF

High performance, Solvent free, Non Sag,
Chemical & Abrasion Resistant Epoxy Lining Mortar

Product Description

POLY PAIR EPF is 3 components; solvent-free epoxy resin mortar based on a combination of epoxy resins and carefully selected & graded aggregates. It is formulated to provide after mixing the three components a thixotropic consistency mortar with high quality, abrasion & chemical resistance. It is suitable for use for horizontal, vertical and overhead patching & resurfacing to dry and damp surfaces. It is supplied in pre-weighed quantities: A (Resin), B (Curing Agent) and C (Aggregate) ready for on-site mixing and use.

Typical Application

POLY PAIR EPF is a trowel able epoxy mortar that is formulated to provide an excellent chemical & abrasion resistance to concrete and most of the similar sub-strates. It can use in lining of;

- Where resistance to chemicals and abrasion is required such as sewage work, manhole lining .
- Lining of outfalls, spillage providing permanent impermeable, high strength and monolithic lining.
- As repair mortar for damaged concrete edges.
- As abrasion resistant, protective coating. It can be used in precast concrete, bricks & blocks for long lasting manhole wall rehabilitation.

POLY PAIR EPF is used as Chemical resistant mortar for lining sewers, manholes and related structures.

Product Features

- Easy to mix and to apply.
- Non-sag.
- Solvent - free.
- Waterproofing barrier.
- Curing is not affected by the high humidity.
- Shrinkage - free hardening
- Good adhesion to concrete and most of the substrates.
- High mechanical strength

- Excellent chemical resistance
- Formulated to be suitable for the Middle east climates.

Standards

POLY PAIR EPF complies with the requirements of ASTM C-881 Type III, Grade 3, Class B & C.

Properties

Appearance

Grey epoxy mortar (or any colour upon request)

Specific Gravity

1.75 @ 20°C

Pot Life

4. hours @ 20°C & 2 hours @ 35°C.

Application Temperature

8 - 45°C

Water Absorption

0.05 % (ASTM D-570)

Full Cure

7 days @ 20°C.

Chemical Resistance

Excellent to the most known chemicals.

Thermal compatibility to concrete

Good

Mechanical Properties

Typical results are shown for tested samples

Compressive Strength

85 N/mm² (ASTM D-2566)

Flexure Strength

33 N/mm² (ASTM C-580)

Tensile Strength

48 N/mm² (ASTM 0-638)

Bond strength

15 N/mm² (ASTM C-307)

Note:

The above results are based on controlled laboratory conditions.

Guide For Application

Preparation

All surfaces shall be clean, sound, free from standing water, dust, oil & grease and all loosely adhering particles.

Mixing

Mix components A + B together for at least 2 minutes with slow speed electric drill (500 rpm) until retching a smooth consistency, add component C and continue mixing until homogenous mortar is achieved.

Application

Apply directly to the prepared & primed surface by spatula or trowel. Thoroughly compact the mortar around any exposed reinforcement.

POLY PAIR EPF can be applied in sections up to 12-mm thickness. It is finished by the use of a wood float and closed with a steel trowel.

Packaging

POLY PAIR EPF is supplied in 6 kg. packs.

Yield

6 kg packs, gives approximate yield 3.2 liter.

Coverage

One pack will cover 2 - 3 m² @ thickness of 2 mm. This coverage will be affected by the conditions of the substrate.

Storage

POLY PAIR EPF should be kept in a dry store in the original unopened containers away from any extreme temperatures.

Shelf Live

One year when stored as recommended.

Cleaning

Clean all the tools equipment after use immediately with SOLVENT

Health and safety

- Epoxy resins contain irritants, especially to the skin, eyes, and respiratory system.
- Persons handling these materials should use appropriate protective clothing, including rubber gloves.
- If an epoxy resin should contact the skin, it shall be removed immediately with dry cloth or paper towel, and the area of contact washed thoroughly with soap water.

Guarantee / Warranty

We warrant our products to be of good quality and manufactured to rigid standards. This warranty is in lieu of any and all other warranties expressed or implied.

This data sheet is published for information only. It is believed to be correct but no liability is accepted for it or the suitability of the product for any particular purpose.

POLYCOO services are free and the company does not accept liability for any loss arising from it.

Storage & shelf life

POLY PAIR FC has a shelf life of 12 months if stored in normal temperature and closed shaded dry area in undamaged original packing.

Technical support

For any technical support, please consult **POLYCOO** office or representatives.

Health & safety

See separate data sheet or contact **POLYCOO** for more details.



Under technical collaboration with

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