

Dr. Fixit Polymer Mortar PX



TWO PACK STRUCTURAL GRADE POLYMER MODIFIED REPAIR MORTAR

Description

Dr. Fixit Polymer Mortar PX is a two component polymer modified repair mortar composed of powder component based on cement binder, properly graded aggregates and additives & second component is specially developed liquid polymer. It is to be mixed with water on site to produce a highly consistent, high strength cement mortar. It is specially designed for repairs of RCC members like beams & columns, slabs & walls because it provides high compressive strengths, high resistance to chlorides and carbon dioxide.

Areas of Application

- **Reinstatement of**
- Spalled concrete to R.C.C. members like beams, columns,
- Wall, slab etc.

Features & Benefits

- **Strength** - Develops high initial and final strengths, helps in early completion of repairs.
- **Ease of application** - Can be applied by hand like conventional mortars.
- **Bonding** - Excellent bond to concrete substrate prevent delamination & cracking.
- **Corrosion** - Contains no chloride admixture hence no corrosion of rebars.
- **Permeability** - Extremely low permeability provides maximum protection against carbon dioxide and chlorides.
- **Moisture ingress** - Offers excellent resistance to moisture ingress prevents corrosion.
- **Shrinkage** - Shrinkage compensated hence do not crack.
- **Thickness** - Suitable for repair of thickness up to 50 mm.

Method Of Application

1 SURFACE PREPARATION

- Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits mechanically or ideally by grit blasting.
- Clean the surface and remove loose concrete, any dust, oil paint, grease etc.
- Pre wet the surface with water and allow it dry slightly.

2 PRIMING

- Apply Dr. Fixit Zinc Primer over the cleaned re-bars & allow to dry before repair.
- The substrate should be primed by applying one neat / clear coat of Dr. Fixit Pidicrete MPB.

3 MIXING

- For normal application use 3.25 to 3.5 litres of potable water per 25 kg. bag of Dr. Fixit Polymer Mortar PX.
- First add polymer into water and mix for 2 minutes.
- Then add powder slowly and mix for 3 minutes till homogeneous mix is obtained. Mixing must be done with a forced action mixer.

4 APPLICATION

- Apply the mix Dr. Fixit Polymer Mortar PX to the prepared substrate by hand when primer becomes tacky. Ensure that the material has reached evenly behind bars.
- Dr. Fixit Polymer Mortar PX can be applied from 10 to 15 mm thickness in a single application.
- Built up required thickness in layers of 15 mm accompanied with bonding agent.
- Mild cure the prepared surface with water for 3 days.

Dr. Fixit Polymer Mortar PX

TWO PACK STRUCTURAL GRADE POLYMER MODIFIED REPAIR MORTAR

Precautions & Limitations

- For a repair thickness more than 20 mm, bond coat is recommended before applying next layer.
- Minimum thickness to be 10 mm.
- For cold conditions upto 5°C, warm water upto 30°C must be added, to help Dr. Fixit Polymer Mortar PX quickly gain strength.
- Strictly maintain water powder ratio.
- Only use mechanical device for mixing, avoid hand mixing at site.
- Use Dr. Fixit Epoxy Bonding Agent for critical applications.
- In case of reduction in rebar size, consult local structural engineer.
- Do not add sand or cement in Dr. Fixit Polymer Mortar PX at site.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Appearance, Powder Liquid		Free flowing powder Milky white emulsion
Mixed density, kg/m ³		2100
Pot Life @ 25°C, Minutes		30
Setting time, in Minutes - Initial Final		210 270
Compressive strength-28 days, N/mm ²	BS : 6319 : part 2	45
Flexural strength, 7days, N/mm ²	BS : 6319 : part 3	7
Tensile strength, 7days, N/mm ²	BS : 6319 : part 7	2
Water absorption, %		< 0.5
Bond strength, N/mm ²	BS : 1881 : Part 207	1.5
Depth of carbonation in mm		Nil - Passes the Accelerated carbonation test, after 2 & 4 hours
Chloride content		Nil

Packaging

- 25 kg
- Part A = 24.750 kg powder in HDPE packing
- Part B = 250 g Polymer in a plastic bottle

Coverage

- Yield per bag -13.5 ltrs
- 1 - 1.3 sqm per 25 kg pack at 10 mm thickness

Shelf Life & Storage

- Shelf life is 12 months from the date of manufacturing in unopened condition.
- Store in a cool & dry place.

Dr. Fixit Polymer Mortar PX



TWO PACK STRUCTURAL GRADE POLYMER MODIFIED
REPAIR MORTAR

Health & Safety Precaution

- Use rubber hand gloves & safety goggles, while using Dr Fixit Polymer Mortar PX.
- In case of contact with skin, wash with plenty of water.
- Keep out of reach of children's.

Other Product Categories Available

DR. FIXIT has wide range of Waterproofing & Construction chemicals which includes,

- Waterproofing Products
- Repair Products
- Sealants
- Flooring Products
- Exterior Coating Products
- Tile Fixing Range
- Concrete Admixtures
- Grouts



Pidilite Industries Limited

Construction Chemicals Division
Ramkrishna Mandir Road
Post Box No. 17411
Andheri (E) Mumbai 400059 INDIA
Tel +91-22-2835 7000 • Fax +91-22-2835 7008
website www.doctor-fixit.com • E-mail drfixit@pidilite.com
Toll Free No.: 1800-22-5502

DISCLAIMER The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.