

Dr. Fixit Polymer Mortar HB



SINGLE COMPONENT READY TO USE STRUCTURAL GRADE
HIGH BUILD POLYMER MODIFIED REPAIR MORTAR

Description

Dr. Fixit Polymer Mortar HB is a ready-to-use repair mortar, composed of Cement, properly selected & graded fillers, polymers, additives with specially designed acrylic fibers. It is available in powder to be mixed in a definite quantity of water for application. It is used for repairs of structural members of residential, commercial & industrial buildings. It produces a dense, high strength repair mortar, with excellent bond characteristics to steel reinforcement and concrete. Dr. Fixit Polymer Mortar HB Mortar is shrinkage compensated, has low permeability, extremely durable, chloride free and contains no metallic aggregate. It can be trowel applied or spray applied up to thickness of 50 mm in single layer.

Areas of Application

- All kinds of repair for structural members of - Industrial, Commercial & residential buildings.
- Repairs to reinforced or pre-stressed beams or columns.
- Repair of structural members subjected to repetitive loading.
- Repairs of jetties & any other structure in marine environment.

Features & Benefits

- **Ease of application** - Easy to mix with water and apply manually by trowel .
- **Shrinkage** - Reduces the risk of cracking due to shrinkage compensation.
- **Primer** - No primer required.
- **Economics** - Saves primer cost, easy to apply manually becomes economical.
- **Low rebound** - No rebound losses hence no wastage of material during machine application.
- **Permeability** - Extremely low permeability, gives excellent resistance to attack by aggressive environmental elements, making it durable.
- **Machine application** - Applicable by spray machine increases the speed of application with less labor & energy.

Application Procedure

1 SUBSTRATE PREPARATION

- It is essential that the substrate to be repaired is sound, clean and free of all contamination.
- The damaged areas of concrete to be removed should be clearly identified. The perimeter of the area should be saw cut to a depth of 10 mm and the edges cut as neatly as possible keeping the sides squares. Feather edging is not permitted and a minimum thickness of 10 mm must be maintained over the whole repair area.
- If reinforcement is exposed in the repair area, it should be cleaned to remove all the rust particles by mechanical means like metal wire brush or abrasive blasting.
- Cathodic protection to the reinforcement steel can be provided by applying Dr. Fixit Epoxy Zinc Primer to the cleaned steel bar uniformly. Severely corroded reinforcement may require replacement and the engineer must be consulted.

2 PRE-WETTING THE SUBSTRATE

- The concrete substrate must be saturated with water till saturated surface dry condition is achieved. Any excess water may be removed by cloth or oil free compressed air.
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3 MIXING

- Dr. Fixit Polymer Mortar HB must be mixed mechanically. For this, heavy-duty slow speed drill with spiral mixing paddle or forced action mixer can be used.
- Add 3.5 litres of water into the mixer. Start the mixer and add the Dr. Fixit Polymer Mortar HB powder rapidly and continuously. Mix for 3 minutes until mortar is homogeneous and lump free.
- Add water, if necessary, to get the desired consistency. Mix for a further 1 to 2 minutes. Under no circumstances should excess water be added. Little extra water may be required in hot climatic conditions.
- If ambient temperature is more than 30°C, use chilled water for mixing and store unused product in shed. For better results maintain the mixed temperature of product at 35°C.

4 APPLICATION

- After mixing, Dr. Fixit Polymer Mortar HB can be sprayed or trowel applied.
- When applying by hand Dr. Fixit Polymer Mortar HB must be forced tightly into the substrate to ensure complete contact with the pre-wetted substrate. In situations where reinforcement steel is countered, the mixed material should be placed behind the bars tightly and then subsequent thickness should be built.
- Leveling and initial finishing should be carried using a wooden or plastic float. Final finishing should be carried out using a steel float.

5 CURING

- Good curing is essential. Particular care is required in hot and / or windy conditions. Curing can either be done with a single coat of Dr. Fixit Curing Compound or by covering the repaired area with wet hessian cloth fixed over repaired section.

Precautions & Limitations

- Do not mix with excess water.
- Do not apply at the temperature, below 10°C.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Appearance		Free flowing Powder
Colour		Grey
Water : Product ratio by weight		0.12-0.14
Fresh Wet density. kg / m ³		2300 + 50
Application thickness, mm [one stroke]		50
Compressive strength, 1 day - N/mm ²	BS : 6319 : part 2	25 - 30
3 days - N/mm ²	BS : 6319 : part 2	40 - 45
7 day - N/mm ²	BS : 6319 : part 2	60 - 70
Flexural strength, 7 days - N/mm ²	BS : 6319 : part 3	19 - 20
Tensile strength, 7 days - N/mm ²	BS : 6319 : part 7	6 - 7
Bond Strength, N/mm ²	ASTM : C 881	5 - 6
Water permeability, %		< 1

Packaging

25 kg



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Coverage

- Yield - 12.4 liter per 25 kg's bag @ w/p - 0.14
- 1 - 1.2 Sq Mtr per bag (25 kg) mix at 10mm thickness

Shelf Life & Storage

- Shelf life is 6 months from date of manufacturing in unopen condition.
- Store at cool and dry place away from moisture.

Health & Safety Precaution

- Use rubber hand gloves & safety goggles, while using Dr Fixit Polymer Mortar HB
- In case of contact with skin, may irritate, wash with plenty of water.
- Consult physician, if required.
- Keep out of reach of children's

Other Product Categories Available

Dr. Fixit brings the widest range of Construction Chemicals

- Waterproofing
- Tile Fixing
- Sealants
- Industrial Floorings
- Building Repairs
- Coatings & Paints
- Concrete Admixtures
- Grouts & Anchors



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