

ChemRepair Plus

Polymer Modified High Strength Fibers Containing
Quick Setting Repair Mortar

Customized Construction Chemicals

Description: - ChemRepair Plus is a ready to use single component polymer modified quick setting repair mortar containing fibers and special chemicals. It produces excellent bonding strength, durability and highly consistent repair mortar. ChemRepair Plus is factory designed paste and pourable, non-shrink, repair concrete with selected cement, aggregate and other special chemicals.

Characteristic Parameters

Test Parameters	Specification
Appearance	Gray Colour Powder
Mix Density at 27°C	2.2 - 2.4 gm/cc
Working Life at 27°C	20 - 30 min.
Setting Time, (W/P ratio 0.180- 0.200/kg) at 27°	
Initial Set	30 min
Final Set	60 min
Compressive Strength, N/mm ²	
1 Day	15
3 Day	23
7 Day	32
28 Day	45

Features/Advantages

- ❖ Easy to apply and excellent workability.
- ❖ Used fibers to reduce micro cracks and special bonding with substrate.
- ❖ Improve durability and strength.
- ❖ Chloride and iron free, hence no rusting or staining on exposed edges.
- ❖ It is non-shrink, non-corrosive and non-toxic.
- ❖ A properly designed concrete which can be paste and poured onto prepared surface.

Applications

- ❖ Can be repair damages areas of columns, beams, building, and concrete roads.
- ❖ Can be repairs concrete pot holes and honey comb.
- ❖ It is used as a premixed mortar for concrete repairs and structural strengthening.

Application Methodology

Substrate Quality/Pre-Treatment

Concrete

- ❖ The concrete shall be thoroughly clean, dust free, loose material, surface contamination and materials which reduce the bond strength.
- ❖ De-laminated, weak, damaged and deteriorated concrete sound concrete shall be removed by suitable mechanical or very high pressure sand/water blasting techniques.
- ❖ Tying wire fragments, nails and other metal debris embedded in the concrete should be removed where possible.
- ❖ The edges where concrete is removed should be cut at a minimum angle of 90° to avoid undercutting and a maximum angle of 135° to reduce the possibility of debonding with the top surface of the adjacent sound concrete and should be roughened sufficiently to provide a mechanical key between the original material and offshore chem Repair material.
- ❖ Ensure sufficient concrete is removed from around the full circumference of the reinforcement to allow application of the reinforcement corrosion protection coating (if required) and compaction of the repair material.

Steel Reinforcement

- ❖ Rust, scale, mortar, concrete, dust and other loose and deleterious material which reduces bond or contributes to corrosion shall be removed.
- ❖ Surfaces shall be prepared using abrasive blast cleaning or high pressure water-blasting techniques.
- ❖ Where exposed reinforcement is contaminated with chloride or other material which may cause corrosion, the reinforcement shall be cleaned by low pressure water blasting before application of reinforcement corrosion protective coating.

Mixing

- ❖ ChemRepair Plus can be mixed with a low speed (< 500 rpm) hand drill mixer. In small quantities. Pour the recommended water in a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly at least for 3 minutes adding additional water during the mixing time if necessary to the maximum specified amount and adjust to the required consistency.

Coverage:- 1 m²/bag at 14 mm thickness.

Curing Treatment

- ❖ Protect the fresh mortar immediately from premature drying for a minimum of 3 days using an appropriate curing method like curing compound, moist geotextile membrane polythene sheet etc.
- ❖ Curing compounds shall not be used when they adversely affect subsequently applied products and systems.

Cleaning of Tools:- Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

Health & Safety

- ❖ Before handling product wear suitable protective clothing, gloves, Nose mask, helmet and Goggles.
- ❖ Avoid contact with skin /eyes, and avoid swallowing.
- ❖ Inhalation of dust during mixing should be avoided.
- ❖ If material contacted to skin rinse with plenty of clean water, then cleanse with soap and water.
- ❖ In case of eye contact, wash with plenty of clean water and seek medical advice.

Packing:- 1, 5 and 25 kg. Moisture proof bag.

Shelf-Life and Storage Condition:- Shelf life is 12 months from the date of manufacturing when store in a dry and cool place with unopened sealed moisture proof bags. If stored in high temperature and high humidity place the shelf life may be reduced.

Our Other Products Ranges Are:-

- Concrete Admixtures
- Sealants & Primer
- Industrial Floorings
- Concrete Repair Products
- Mould Release Agents
- Adhesive for Tiles, Marbles and Stones
- Concrete Curing Compounds
- Waterproofing Chemicals
- Industrial Grouts
- Concrete Hardeners
- Concrete Bonding Agents
- Joint Filler Grouts for Tiles, Marbles and Stones

Offshore

Important Note:- Offshore Chemox products are confirming standard manufacturing specification and procedure. Offshore Chemox products are given in good faith based on Offshore Chemox current knowledge and experience of the products when properly stored, handled and applied under normal conditions. Offshore Chemox product are confident against defective materials and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Offshore Chemox endeavors to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

OFFSHORE CHEMOX

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