

REPAIR GUARD-F

(Fibre reinforced thixotropic repair mortar)

DESCRIPTION:

REPAIR GUARD-F is a general-purpose non-shrink, cementitious, thixotropic high strength formulation for structural concrete repairs and plastered surfaces. REPAIR GUARD-F is suitable for 10 mm to 50mm both vertically & overhead. Can be sprayed.

AREAS OF APPLICATION:

- Any General Concrete Repairs areas such as -Ceiling surfaces, Wall plaster, facade, Concrete substrates, etc.
- Patch and Repair Mortars: Grouts for repairing cracks and de-lamination of concrete structures such as sidewalks, driveways, and walls. New mortar will not stick well to old concrete without polymer modification.

ADVANTAGES:

- Dual shrinkage compensated.
- Ready-mix Cement based Polymer mortar - No need to add sand, cement & aggregates, so saves time & energy.
- Needs to be mixed with water only - No additional dispersion liquid is necessary.
- High bonding strength - Suitable for overhead surfaces & can also be sprayed.
- Multi-purpose - Can be applied on horizontal, vertical and overhead surfaces without any form work and can be used along with plastic or steel fibres.
- Fast & easy process.
- Low permeability - Offers extremely low permeability to water carbon dioxide and chlorides.
- Improved workability - Polymer modification noticeably improves application characteristics, making the mortar more fluid and easier to handle and apply.
- Improved strength and durability - Cured polymer-modified mortars generally have improved tensile strength, flexural strength, impact and abrasion resistance, water resistance, and chemical resistance versus unmodified mortars.

PRODUCT INFORMATION:

Appearance	Grey cementitious powder
Chloride content	Nil
Depth of carbonation	Nil
Packaging	25 Kg in moisture resistant bags
Shelf life	6 months in original unopened bag
Water – powder mixing ratio	3.75-4 ltr/25 Kg of bag



TECHNICAL DATA:

Sr No.	Test Parameter	@ Days	Test Result
1	Compressive Strength (ASTM C 109)	1	20 N/mm ²
		7	35 N/mm ²
		28	45 N/mm ²
2	Flexural Strength (ASTM C 293-79/EN 196-1)	7	6.20 N/mm ²
		28	9.35 N/mm ²
3	Tensile Adhesion Strength (ASTM C 882)	7	9 MPa
		28	12.5 MPa
4	Pot Life	-	40 min. @20 ⁰ C
5	Consumption	-	2250 kg/m ³
6	Bulk density	-	1.32 kg/l @ 27 ⁰ C

METHOD OF APPLICATION:

SURFACE PREPARATION:

- Clean the surface and remove loose concrete, dust, oil, paint, grease, waterproof coating, etc. Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits.
- Apply Rust Guard for rust free bars.
- Saturate the substrate with water to prevent absorption of water from the mixed material.

MIXING:

Use mechanical mixture for mixing of REPAIR GUARD-F

- Charge 85-90 % of clean & potable mixing water (3.75 to 4 litres per 25 kg bag) to a Mechanical Mixer. Start addition of REPAIR GUARD-F powder slowly under continuous mixing. Keep mixing for 2 minutes. Add balance quantity 15 – 20% of mixing water & again mix for another 2-3 minutes to form a homogeneous, uniform & lump-free mix.

SAFETY PRECAUTIONS:

REPAIR GUARD- F is a cementitious alkali product. Care should be taken to avoid contact with eyes, skin, mouth and food stuff. Any splashes on the human body must be washed with plenty of water.

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