

## REPAIR GUARD- F (FIBRE REINFORCED THIXOTROPIC REPAIR MORTAR / SPRAYABLE)

### 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 polymermodification.

### PRODUCT INFORMATION:

Nature	Cementitious grey powder
Chloride content	Nil
Depth of carbonation	Nil
Wet Density	2250kg/m <sup>3</sup>
Shelf Life	1 year in tightly sealed bag
Packaging	25 kg in moisture-resistant bags

### 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 fibers.
- 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.

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**METHOD OF APPLICATION:**

**1. 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.

**2. MIXING:**

Use Mechanical Mixer for mixing of REPAIR GUARD. Charge 85-90 % of clean & potable mixing water (3.75 to 4 liters per 25 kg bag) to a Mixer. Start addition of 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, free flowing, uniform & lump-free mix.

**TECHNICAL DATA:**

SR NO	TEST PARAMETER	TEST METHOD	TEST RESULT	MEASUREMENT UNIT
1	Compressive strength ( At 1 day )	ASTM C 109	20	N/mm <sup>2</sup>
2	Compressive strength ( At 7 days )	ASTM C 109	35	N/mm <sup>2</sup>
3	Compressive strength ( At 28 days )	ASTM C 109	45	N/mm <sup>2</sup>
4	Flexural strength ( At 7 days )	ASTM C 293-79	3.5	Mpa
5	Flexural strength ( At 28 days )	ASTM C 293-79	8 - 8.5	Mpa

**SAFETY PRECAUTIONS:**

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

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