

MAXTREAT[®] PATCHUP

Single Component, Fibre Reinforced Cementitious Repair Mortar



MAXTREAT[®] PATCHUP is a single component thixotropic fiber reinforced polymer modified repair mortar. It can be applied vertically or hand trowelling. MAXTREAT[®] PATCHUP is reinforced with specially designed bean shaped, alkali resistant synthetic fibers for exceptional resistance to cracking. It is recommended for repair situations requiring application of mortar up to 10-20mm thickness in one layer.

Uses

- Extensive repairs to beams, columns and other structural elements.
- Repair of structural members subjected to repetitive loading.
- For patching up honeycombed areas.

Benefits

- Single Component- Only addition of water required at site
- Easy to apply
- Quality controlled, uniform, predictable results
- No additional bonding agent required.
- Impermeable to aggressive elements.

Standards Compliance

MAXTREAT[®] PATCHUP is complies with ASTM C 109 for test compressive strength.

Specification Clause

The dual shrinkage compensated, cementitious patch repair mortar shall be MAXTREAT[®] PATCHUP with compressive strength of 24.00 MPa at 7 day and 30.00 MPa at 28 days.

Properties

W/P Ratio	0.16
Compressive Strength	11 MPa at 1 day 18 MPa at 3 days 24 MPa at 7 days 30 MPa at 28 days
Mixed Density	2.15-2.28 gm/cc
Flexural Strength (ASTM C 348)	6 N/mm ²
Tensile Strength (ASTM C 307)	>2 N/mm ² at 7 days
Young's Modulus	26 kN/mm ²

Adhesion Strength	Bond	>2 N/mm ²
Creep Reduction	Strain	8%
Modulus of Elasticity		23-26 kN/mm ²

Dynamic Load Resistance- Can resist alternate loads, reversal loads & repeated loads cycle without major variations in the mechanical characteristic.

Instructions for Use

Correct substrate preparation is critical for optimum performance. The prepared surface should be structurally sound and free from contaminants. Remove concrete that has been saturated with oil or grease. Simple light sand-blasting will not provide a sufficient profile for most repairs.

Note: It is recommended that the decision on replacement of rebars is taken based on the advice of the structural engineer responsible for the works.

Mixing

MAXTREAT[®] PATCHUP with Water

MAXTREAT[®] PATCHUP must be mixed mechanically. Use a heavy-duty, slow speed, drill with spiral mixing paddle or a Pan type mixer attached to spray units with nozzle. Place approximately 75% of water in the mixer, keeping the mixer running, and add MAXTREAT[®] PATCHUP slowly. Mix for 2-3 minutes or until a lump free mix is obtained. Add the balance 25% water and continue to mix until desired consistency is achieved.

If ambient temperature is 30°C or more use chilled water and condition the bagged product in an airconditioned store prior to use. Maximum mixed temperature should be no more than 35°C. MAXTREAT[®] PATCHUP can be used when the ambient temp is between 7 and 38°C.

Placing

MAXTREAT[®] PATCHUP has been formulated for placing both by trowel and hand application. Depending on the size and location of the repair area.

MAXTREAT[®] PATCHUP

For best results before application by trowel apply the first layer by gloved hand including packing behind the rebars and then firmly trowel on the rest to required thickness. When applying by hand force MAXTREAT[®] PATCHUP tightly onto the substrate to ensure intimate contact with the pre-wetted substrate. If applying by spray use the experienced nozzle man.

Curing

Good curing is essential, particular care is required in hot/or windy conditions. Cure either by a single Maxcure[®] CC 75 curing membranes, which is compatible with MAXTREAT[®] PATCHUP or with water.

Health and Safety Instructions

MAXTREAT[®] PATCHUP mortar does not fall into the hazardous chemicals list. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Storage

MAXTREAT[®] PATCHUP has a shelf life of 6 months when the ambient temperature is within the range of 25°C to 48°C. Should the temperature of the product fall outside this range, contact Thermax for advice.

Packing

MAXTREAT[®] PATCHUP is available in 30 Kg HDPE bags.

Coverage

20kg/m² @ 10mm thickness

Yield

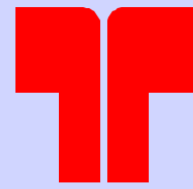
Approximately 15.9 litres per 30 kg bag. Actual yield per bag will depend on the consistency of MAXTREAT[®] PATCHUP.

Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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