

ULTRAPATCH-522

construction products

REPAIR & REPROFILING MORTAR



ULTRAPATCH-522 is a polymer modified, fiber reinforced (non-asbestos) and shrinkage controlled cementitious repair mortar. It is specially formulated for repairs & re-profiling of old and damaged concrete. The mortar is used for repair of damaged load bearing concrete structures and to reconstitute their structural features. ULTRAPATCH-522 is one component of Falcon's concrete rehabilitation system consisting of primer (ULTRAPRIME-112), repair mortar (ULTRAPATCH-522) and smoothing mortar (ULTRAFINISH-312).

ULTRAPATCH-522 is single component in powder form and when mixed with water at site produces a high strength repair mortar, which possesses excellent adhesion characteristic to steel and concrete. It provides corrosion protection of steel reinforcement, restores the load bearing functions and finally the whole repair system is

protected against weathering and environmental damage.

USES

- All type of structural repairs
- Vertical and overhead repairs
- Repairs of slabs, concrete floors, beams, columns, staircase/steps and other areas subject to traffic.
- Rehabilitations of bridges, parking decks, tunnels, etc.
- For restoration and renovation of old and worn out concrete.

FEATURES

- Single component just add water at site.
- Shrinkage controlled
- Excellent bond strength
- High compressive strength
- Resistant to chlorides and sulphates
- Good abrasion resistance
- Suitable for external and internal use.
- VOC Free

TYPICAL PRODUCT CHARACTERISTICS

28 days air cured – standard condition

Appearance	: Coarse mortar– cement grey
Compressive Strength	: 40 N/mm ² (Approx.)
Flexural Strength	: 6 N/mm ² (Approx.)
Tensile adhesion strength (for complete repair system)	: 0.90 N/mm ²

STANDARD

EN 1504 & EN 12190

SURFACE PREPARATION

Substrate to be repaired should be clean and free



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from all contamination. It is advisable to saw/chisel cut the damaged concrete to a depth of 10 to 15 mm with straight edges. Pre-wet the surface thoroughly but make sure there is no standing water on the surface. Priming is recommended for repairing of old, worn out concrete. Prime the surface including the reinforcement with ULTRAPRIME-112 cementitious primer. Ensure that the primer is wet before application of ULTRAPATCH-522 mortar.

MIXING

Use 2.5 to 3 litre of clean water for each 25 kg bag of ULTRAPATCH-522. A slow speed drill with a suitable mixing blade is essential for setting a good mixing. Always add powder to water and mix until homogenous lump free mix is obtained. Do not add more water as it will adversely affect performance of ULTRAPATCH-522. Mixed product should be utilized within 20 – 30 minutes depending on weather conditions.

APPLICATION

Ensure the primed surface for patching is wet before application of ULTRAPATCH-522. It should be applied by trowel and must be forced tightly into the patch area avoiding any voids. Level and smooth the surface with a steel trowel. For finishing use Falcon's ULTRAFINISH-312 smoothing mortar. Curing is essential by either sprinkling with water or covering with wet Hessian cloth for 2-3 days.

COVERAGE

1 to 1.5 m² at an average thickness of 10mm per bag.

PACKING

25 kg bag

STORAGE/SHELF LIFE

Keep away from direct sunlight/moisture and store under normal warehouse conditions. Avoid stacking more than six layers high as the product is likely to become hard under constant heavy loads. The shelf life of the product is 12 months from the date of manufacturing. It is advisable to rotate the stock so that bottom layer bags should not be subject to continuous load.

HEALTH & SAFETY

Avoid contact with skin. Do not inhale. Avoid inhalation of dust. In case of eye contact, wash thoroughly with water, and seek medical advice immediately.

TECHNICAL SERVICES

Technical assistance and information is available by calling Falcon Chemicals (L.L.C.) on specific application.

DISCLAIMER

This leaflet is a guide for the use of the product concerned. The information given is in accordance with latest technical developments. However, we do not accept liability/responsibility for any work carried out with our materials, as we have no control over the method of application used or the condition of site involved.

ISSUE DATE: DECEMBER 2011

This technical specification supercedes all previous data sheets.



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