

UniPatch® 601

Cement-based, cosmetic repair mortar

Description

UniPatch 601 is a single component, cement-based, polymer modified, cosmetic repair mortar. It is specially formulated to be applied by hand to fill in concrete surface defects such as pores, honeycombs, blowholes ...etc. **UniPatch 601** can be applied at thickness between 4 and 10 mm/layer. After drying, it gives a smooth, shrinkage compensated mortar with excellent adhesion to concrete substrates.

Features and benefits

- Ready to use. Just requires the addition of water.
- Factory controlled production to give a consistently high-quality product.
- Non-sag. Good consistency.
- Polymer modified; no primer is required.
- High bond strength and low permeability.
- Shrinkage compensated.

Recommended for

- As a cosmetic repair mortar to cover blemishes in concrete surfaces such as pin holes, minor honeycombing and blowholes.
- As a fairing coat to produce a uniform surface to cover concrete surfaces defects due to shutter movement prior to the application of subsequent finishing layers.
- As a fairing coat over concrete repair areas.
- As a fairing coat to cover defects in fair face concrete surface.

Composition

UniPatch 601 is composed of high strength Portland cement, well graded fillers and compound of selected chemicals to improve workability and reduce shrinkage cracking.

Packaging

UniPatch 601 is available in 25 kg bags.

Coverage

1.50 m²/25 kg bag @ 10 mm thickness.

Note:

Coverage rate takes no account of wastage and may vary according to surface condition and application method.

Technical data

Mixed density	1.7 kg/liter
Compressive strength ASTM C109	>45 N/mm ² @ 28 days
Bond strength EN 1542	>0.8 N/mm ²
Flexural strength ASTM C348	>4.75 N/mm ² @ 28 days
Pot life	60 minutes @ 20°C
Application thickness	4 – 10 mm/layer
Grain size	<2.0 mm
Appearance	Grey powder

Surface preparation

Substrates to be repaired should be clean, sound, and free from any contamination. Remove any traces of curing compound, laitance, organic growth or any other loose materials must be removed by suitable means. The perimeter of the damaged area should be marked and saw cut to a depth of 4 mm. Remove the defected concrete to a minimum thickness of 4 mm. Mechanical surface preparation is recommended. Surface should be roughened and open-pored. Wash the prepared surface to provide saturated surface dry condition.

Mixing

UniPatch 601 mortar can be obtained by mixing a 25 kg bag of **UniPatch 601** with approx. 6.00 to 6.25 liters of clean water. Mix using slow speed drill fitted with suitable mixing paddle or a high shear stationary mixer. Partial small quantities may be mixed manually using suitable hand tools.

Damp down the inside of the mixer with water prior to mixing the first batch. Ensure that the mixer is damp but free from standing water.

Add the premeasured quantity of water into the mixer and then add the powder component slowly while mixing.

Mix for 5 minutes minimum till a fully homogeneous, lumps-free mortar is achieved. Mix material that can be applied within 60 minutes (pot life). **UniPatch 601** may stiffen on standing. Remix product to regain a workable consistency but do not add more water.

Application

UniPatch 601 should be applied to the prepared area manually at the required thickness using steel trowel. Force **UniPatch 601** into the prepared substrate to fully compact the mortar ensuring that there is good adhesion with the substrate. Application is made with one or several layers depending on the substrate condition and application thickness. In case that more than one layer will be applied, leave each layer to dry overnight before applying the following layer. Finish the final surface using wooden trowel. When the mortar starts to dry so that finger pressure leaves light marks, trowel the surface firmly to a smoother finish.

Curing

As with all cement-based products, good curing is very important to ensure that the optimum characteristics are obtained. Always cure with tap water. Begin curing as soon as the final finish is achieved. Cover the work with plastic sheet fixed over wet hessian. Keep damp for 5 days.

Cleaning

Clean tools with water immediately after use. Hardened materials should be cleaned mechanically.

Storage and shelf life

If stored unopened in a dry place at a temperature between +5°C and +30°C away from sources of heat and moisture, shelf life is 12 months from the date of manufacture printed on the pack.

Health and Safety

This product contains cement which may cause skin irritation. It may cause allergic skin reaction and eye damage. Avoid breathing dust. Wear protective gloves, eye goggles and clothing. In case of skin contact, wash with plenty of water. In case of eye contact, rinse continuously with water for several minutes and seek medical attention. Dispose excess material to special waste collection point in accordance with local & national regulation. Keep out of reach of children.

For further information, please ask for Safety Data Sheet for this product.

The most up-to-date TDS can be obtained from ACC Customer Service Department, or downloaded from our website: www.acc.com.eg.

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- Waterproofing.
- Flooring.
- Tile Adhesives & Grouts.
- Concrete Repair.
- Non-Shrink Grouts.
- Bonding Agents.
- Exterior Façade Coatings.
- Premixed Fairing Coats, Renders & Mortars.
- Putties (stucco).
- Sealers & Emulsion Paints.