

COSTAR RM 10

High Quality Patch Repair Concrete

Description

Costar RM 10 is a single-component cementitious repair mortar. The high-strength patching material is suitable for both interior and exterior concrete surfaces, and for general repair of cracks and holes. It can be applied to rigid surfaces – sand/cement/ screed or concrete bases, asphalt, granolithic, terrazzo, ceramic and quarry tiles, epoxy and polyurethane coatings.

Benefits

- Easy to Use
- Improves impermeability and chemical resistance.
- No pollution to environment.
- Improves compressive strength and durability
- Tenacious adhesiveness and low shrinkage.

Uses

- Patching and repair of masonry blocks, curbs, steps, sidewalks, and more, both for external and internal purposes
- Used as plaster on walls and panel system.
- Widely used on highway, fly-over, concrete constructions on the sea, new and old buildings
- Ideal for restoration of honeycombed, spalled or otherwise damaged concrete
- It may be used for flatwork, in-situ or precast beams, columns and walls.
- It may be applied for mass or thin-set repairs.

Application

Surface Preparation

Ensure that the concrete surface to be repaired is sound and free from dirt, oil, laitance and any other deleterious substances, which reduces adhesion of material to the substrate. Weak, damaged and deteriorated concrete should be removed and edge of repair area should be recessed to a depth of 5mm to prevent feather edging.

To ensure satisfactory bonding, the prepared surface should be dampened down to minimize suction. Ensure that the surface is in a saturated surface dry condition prior to application of Costar RM 10

Priming

All exposed reinforcement bars must be cleaned and treated with Costar anti-corrosion rebar primer. Absorbent surfaces should be dampened with clean water. Very absorbent surfaces must be primed with dilute Primer-Aqualatex C10. Non-absorbent surfaces must be primed as well. The primer should be used in accordance with the instructions printed on the Product Datasheet and must be allowed to dry before applying the repair mortar.

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Mixing

Costar RM 10 should be mixed in the proportions of 20kg of powder to 4.4 – 4.6 liters of water or 3:1 to 4:1 by volume.

Add Costar RM 10 powder to the required amount of water in a clean container and mix for at least 3-4 minutes until a homogenous, smooth, and even trowel-able plastic consistency is obtained. Mixing is best achieved using a drill fitted with a power whisk.

Only mix enough mortar that can be applied before the product begins to set (approx. 10 – 15 minutes). Costar RM 10 can be applied up to a thickness of 5-50mm.

The working time will be extended at low temperatures and reduced at higher temperatures.

Technical Data

Working Time @20°C	10-15 minutes
Work on Hardness Time @20°C	20-30 Minutes
Ready for Overcoating after	1 1/2 Hours @ 2mm
Compressive Strength (N/mm²) (BS EN 13892-2)	
1 Day	>30.00
7 Days	>50.00
28 Days	>60.00
Flexural Strength (N/mm²) (BS EN 13892-2)	
1 Day	>2.0
7 Days	>3.0
28 Days	>4.0
Yield Per 20Kg bag	13.5 liters
Consumption Per mm Thickness	1.63Kg/m ²
Application Thickness	5-50mm



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Limitation

Costar RM 10 should not be used when the temperature is below 50C and falling. Do not exceed the maximum recommended water content and only use clean potable water. If any doubts arise concerning temperature or substrate conditions, consult your local Costar Building Product office.

Curing

Protect the fresh mortar immediately from pre-mature drying for a minimum of 3 days using Costar range of Curing agent or other appropriate curing method.

Health and Safety

Costar RM 10 should not be swallowed or allowed to come into contact with skin and eyes.

Please use gloves and protective goggles. Avoid inhalation of dust. Wash skin contamination away with warm soapy water.

Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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