

COSTAR RM 50

High Build Fast Setting Structural Repair Concrete

Description

Costar RM 50 is heavy duty; polymer modified fast setting structural patching concrete with high ultimate compressive strength and abrasion resistance. It is specially designed for use on vertical and horizontal concrete repair and reinstatement in large or small areas.

Benefits

- Easy to prepare, fast setting and quick to apply.
- Excellent workability
- Improves impermeability and chemical resistance.
- Improves compressive strength and durability; ideal for structural repairs
- Excellent high build properties
- Zero VOC content and freeze/thaw resistant
- Excellent adhesion to substrates, subfloors and stable adhesive residue.
- Excellent standard of finish can be achieved to allow direct application of coverings.
- Shrinkage compensated allows for long term dimensional stability.

Uses

- It's widely used re-profiling and repairs on highway, fly-overs, car parks
- concrete constructions on the sea
- Patching and repairing damaged concrete.
- It can be used for concrete repairs in factory, car parks etc.
- It can also be used for quick and fast patch repair of concrete and asphalt roads
- 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.
- It's suitable for above and below grade repairs.
- It's used as plaster on new type walling and panel system.
- For repairs to damaged industrial flooring.

Application Instruction

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 50

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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.

Mixing

Costar RM 50 should be mixed in the proportions of 20kg of powder to 6 liters of water.

Add Costar RM 50 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 50 can be applied up to a thickness of 10-100mm. For increased economy the mortar can be bulked out by adding up to an equal volume of graded aggregate.

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

Limitation

Costar RM 50 should not be used when the temperature is below 5°C 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.

Shelf Life

Costar RM 50 has a shelf life of 12 months if kept in a dry store in the original, unopened bags or packs.



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Technical Data

Working Time @20°C	10-15 minutes
Open Time	30-50 Minutes
Setting Time	2-4 Hours
Compressive Strength (N/mm²) (BS EN 13892-2)	
2 Hours	>25
4 Hours	40
1 Day	53
3 Days	54
7 Days	56
28 Days	67
Flexural Strength (N/mm²) (BS EN 13892-2)	
1 Day	>6.0
7 Days	>8.0
28 Days	>10.0
Yield Per 20Kg bag	13.5 litres
Consumption Per mm Thickness	2.18Kg/m ² /mm
Application Thickness – Unfilled	10-100mm

Health and Safety

Costar RM 50 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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