COSTAR RM 30

High Quality Smooth Finish Concrete Patch Repair Mortar



PRODUCT DESCRIPTION

Costar Repair Mortar 30 is a one-component, smooth finish easy to use cementitious patching mortar ideal for the repair or re-profiling of concrete. Costar Repair Mortar 30 is provided as a pre-mixed, polymer changed, dry powder which when blended with water is intended for application between 3-20mm.

BENEFITS

- Easy to prepare and quick to apply.
- Improves impermeability and chemical resistance.
- Improves compressive strength and durability
- Excellent high build properties
- Zero VOC content and freeze/thaw resistant
- Good adhesion to substrates, subfloors and stable adhesive residue.
- Excellent standard of finish can be achieved to allow direct application of coverings.

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.
- 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.
- It's widely used re-profiling and repairs on highway, fly-overs, car parks concrete constructions on the sea

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 30

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 30 should be mixed in the proportions of 20kg of powder to 6 liters of water. Add Costar RM 30 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 30 can be applied up to a thickness of 20mm. For increased economy the mortar can be bulked out by adding up to an equal volume of graded aggregate.



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TECHNICAL PROPERTIES

Packaging	20kg	20kg							
Appearance	Grey/white powc	Grey/white powder							
Shelf life	12 months from	12 months from date of production							
Storage condition		Product must be stored in original, unopened, and undamaged sealed packaging in dry condition and temperature between +5 °C and +35 °C.							
Water ratio	4litres of water p	4litres of water per 20kg bag of product							
Setting time	Initial: Approx. 20 minu	Initial: Approx. 20 minutes		Final: 20 to 40 minute		ıtes	ASTM (
Compressive strength	3 hours (13.9 MPa)		hours .2 MPa)	-		28 days (38.5 MPa)		ASTM C109 modified	
Slant shear, modified	24 hours: (6.9 MPa)		7 days: 28 days: (12.3 MPa) (16.4 MF		2				
Length change	28 days, air : ≥ -0.05%	5			s, ASTM ≤ 0.05%			C157	
Application temp	Aminimum 10º C	Aminimum 10° C Maximum 30° C							
Density	2.0kg/l	2.0kg/l							
Open time	Approximately 1	Approximately 100 minute@20°C and 45minute@35°C							
Coverage	(Note: The figu	Approximately 1.2 – 1.5 kg per m ² per 1 mm thickness. (Note: The figure above does not take in to account surface profile, porosity or material waste, thus variation in actual site results can be expected)							



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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.

STORAGE AND SHELF LIFE

Protect from freezing, if frozen or crystallized, thaw gradually and stir to homogenous mixture. Shelf life in unopened original containers is 12 months when stored at 70°F (21°C).

LIMITATIONS _____

Costar RM 30 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.

HEALTH & SAFETY _____

- Please ensure that hand gloves and goggles are worn during installation
- Apply in ventilated areas, away from flames
- It is only important that during application and after application, standard safety procedures are done.
- Please consult current MSDS for product.
- For Professional Use only.

STANDARD COMPLIANCE

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars
- ASTM C157 Standard Test Method for Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete

ADDITIONAL INFORMATION _____

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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