



An ISO 9001: 2015 Certified Company.



Duracoat - CMC

Crystalline waterproofing micro concrete

Primary applications

Duracoat : CMC Repair Mortar is a ready to use single component polymer modified repair mortar. It is specially designed for repairs of RCC members like beams, columns and slabs because of its good compressive strength and shrinkage resistance. It is pre-blended with special additives which provides it excellent workability and adhesion to host concrete/masonry surfaces.

Features & benefits

- Single component ready to use powder which only requires addition of water at site
- Dual shrinkage compensated and hence crack resistant
- Excellent bond strength to concrete and other masonry substrates
- Develops high initial and ultimate compressive strength
- Suitable for repair of thickness up to 50 mm (maximum thickness in a single coat: 25 mm)

RECOMMENDED USAGE

Repair of damaged beams, columns and other RCC members
Patch repair of PCC and other non-reinforced masonry surfaces

PRECAUTIONS & LIMITATIONS

Minimum thickness to be maintained 10 mm.

For higher thickness more than 25 mm, bond coat is recommended before applying second coat.

Strictly maintain water powder ratio.

Temperature of the mix should be maintained at approx. 30°C. During summer use cold water and in winters use warm water to regulate the temperature of the mix.

Mechanical stirrer to be used for mixing, avoid hand mixing.

Technical Data Sheet

PRODUCT INFORMATION

APPEARANCE	Free flowing grainy grey powder
PACK SIZE	25 kg
STORAGE CONDITIONS/ SHELF-LIFE	Shelf life is 6 months from the date of manufacturing. Store at cool and dry place in unopened condition

SURFACE PREPARATION

Surface should be completely free of laitance, oil, dust, grease, plaster, paint, corrosion etc.

Smooth surface should be mechanically roughened by scrubbing or needle gun to form a good key. Edges of the areas for repair must be saw cut to 12 mm to avoid feather edging.

The substrate should be thoroughly soaked with clean water and any excess should be removed.

Apply bonding agent if required.

MIXING & APPLICATION

Duracoat : CMC Repair Mortar must be mixed with a slow speed drill (500 rpm) fitted with a spiral paddle.

Mix 25 kg of powder in 4.75 litres of clean & potable water (19+/-1% of the weight of powder, i.e., 4.5 to 5 litres).

Always put powder in to water. Mix for at least 3 minutes for lump free consistency and apply using a steel trowel.

TECHNICAL DETAILS

Properties	Specification	Results
Water to Powder Ratio	-	0.19+/-0.01
Pot Life	-	60 minutes
Compressive Strength @ 30°C	ASTM C 109 : 99	50-60MPa at 28 day
Flexural Strength @ 30°C	ASTM C 580	8 MPa
Tensile Strength @ 30°C	ASTM C 307	3.5 MPa
Fresh Wet Density	ASTM C 138	2150 kg/m ³
Application Temperature	-	+5°C to + 40°C

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