EVI VERNICI
PAINTS & COATING SOLUTIONS

CONSTRUCTION CHEMICALS DIVISION

Technical Data Sheet

RENDACOAT FC

Cementitious Ready Mix Fair Coat

Composition and Application Field

Rendacoat FC is a single component polymer modified cementitious powder. It is composed of OPC, micro silica and specific additives. It is supplied in powder form ready to mix with clean water at site to produce thixotropic cementitious putty to use as fair face coat for filling pin holes, cracks and repairing irregularities of concrete.

Rendacoat FC is an ideal material for repairing and patching on new construction projects and maintenance, repair and renovation of old construction. It is used for interior and exterior walls and ceilings.

Typical applications include the following:

- Cracks of concrete surface up to 4mm width.
- Pinholes.
- Precast concrete panels.
- Concrete floor repairing.
- Renforced concrete columns.
- Workshops, garages and service facilities.

Advantages

- Smooth finish.
- Easy-on application.
- Cost effectives.
- Early compressive strength.
- Compatible with all cementitious substrates.
- Impermeable when immersed in water.
- Primerless.
- Non shrinkage mortar.
- Excellent adhesion to most commonly encountered building substrates and materials.
- Suitable fro vertical and horizontal applications in interior and exterior locations.
- Available in range of attractive colors.
- Low VOC.

Surface Preperation

The surface should be cleaned. In order to repair damaged area, cracks and honeycombs, laitance, dust, and contaminants should be removed. The substrate also should be free from any contaminations of paint, oils, grease or any barrier between new mortar repair and main substrate.

New Concrete: Wet the surface by sweet water before applying Rendacoat FC will support the binding with main substrate.

Old Concrete: The weak area should be remove by saw cutting then remove all dust and loose debris then apply Bondacoat AR as a primer coat. If reinforcing steel is exposed, refer to other specific product Rendagrout HB (High Build cementitious Concrete Repair). Prior to application, Rendacoat FC mortar should be stored under cover and protected from extremes of temperatures which may cause inconcsistent workability and cure times for the mixed material. During application in cold conditions, correct conditioning can help, but application should be halted if the ambient temperature is likely to fall below 10°C. Pot life of the mixed material will be affected by ambient temperature.

Mixing

Depending on the workability desired, add a 20 Kg bag to 6-7 liters of clean water. The powder should be slowly added to the water and mix by using machine mixer until the compound comes homogeneous and lump-free mortar is obtained.

Pot life of mixture depends on ambient temperature.

Application Method

Apply Rendacoat FC on the bed and repair areas with a spatula, scraper or palette knife above the existing finished level.

Allow Rendacoat FC to dry to touch for approximately 3-4 hours depending on ambient temperature.

Curing

It is recommended to wet the surface once or twice in a day for three days of application. The curing period depends on the thickness and atmospheric conditions.

Coverage

Depends on the irregularity of substrate and the crack width/depth.

Cleaning

Tools and equipment can be cleaned by using potable water.

Packing

20 kg. bag

Technicals Properties

Appearance	Fine grey powder
Mix Density	1900 ± 100 Kg/m3
Pot Life	2 hours at 20°C
	1 hour at 30°C
Compressive Strength	3 days 4 N/mm2
(ASTM C109)	7 days 14 N/mm2
	28 days 25 N/mm2
Bonding Strength	>3.0 N/mm2
(ASTM C8882)	
Minimum Service Temp.	10°C
Maximum Service Temp.	80°C
Water Absorption	1.7% maximum

Storage and Shelf Life

Product should be stored at 25°C in dry conditions. Lasts12 months in tightly closed container.

Safety Precuation

The application of material should be in good ventilation and avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of contact with eyes, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately. The product complies with environmental and occupational health & safety standards ISO 14001 and OHSAS 18001.

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