



constructive solutions

CEMENTITIOUS MORTAR

RENDEROC® ST 06

Renderoc ST 06 is a polymer modified protective cementitious mortar for surface repairs 0.5mm to 5mm deep. Also ideal for the reinstatement of effective concrete cover.

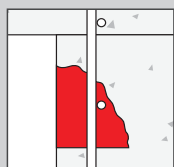


USES

- For reinstatement of effective concrete cover on precast and in-situ reinforced concrete
- To be applied in thin applications to new and old concrete or masonry surfaces to “fair up” the surface and improve resistance to carbonation and chloride ion ingress
- Suitable for vertical, over-head and horizontal applications

ADVANTAGES

- Easy to mix and apply
- The product can be applied at thicknesses down to 0.5mm and up to 5mm in a single layer
- High compressive strength, meets EN1504 Class R3 requirement
- Excellent bond to SSD (saturated surface dry) concrete substrates - refer to TDS for primer requirements
- Suitable as a blow hole filler, up to 5mm deep
- Low permeability to potentially damaging water, CO₂ and chloride ions
- Excellent thermal compatibility with concrete



Concrete Repair

For further information on our concrete repairs range visit www.fosroc.com.au or fosroc.co.nz

Always refer to the product TDS before making your final selection or speak to your Fosroc representative.

Renderoc[®] ST 06

Uses

Renderoc ST 06 is suitable for reinstatement of effective concrete cover on precast and in-situ reinforced concrete, making it a solution for rectifying low concrete cover. Suitable as a protective surface cementitious mortar for applications from 0.5mm to 5mm deep conforming to requirements of EN1504-3 Class R3.

Product functions as a barrier protecting concrete from the ingress of water, chloride ions, carbon dioxide etc from atmosphere. Low permeability to potentially damaging water, CO₂ and chloride ions.

Description

Renderoc ST 06 consists of powder and polymer components. The powder is added to the liquid, the mixing ratio depends on the required consistency and use. The powder consists of a blend of cements, graded aggregates and chemical additives, with a maximum grain sizes of 0.5mm. The liquid component, based on modified acrylic polymers, gives Renderoc ST 06 a creamy consistency with extremely good application and barrier characteristics. The product exhibits excellent thermal compatibility with concrete and is fully compatible with other Renderoc mortars and Dekguard coatings.

Properties

Material tested at liquid : powder ratio of 0.22 and temperature at 20°C

Test method	Standard	EN 1504-3 Class R3 Requirement	Test Result
Compressive strength	EN 12190:1999 AS1478.2-2005	≥ 25 MPa	31.5 MPa @ 28 day
Bond strength by pull off*	EN1542:1999	≥ 1.5 MPa	3.7 MPa
Chloride ion content	EN1015-17:2000	≤0.01 %	0.01%
Resistance to carbonation d _κ	EN 13295:2005	DK ≤ ref concrete MC(0.45)	Pass
Shrinkage and expansion	EN12617-4:2002	≥ 1.5 MPa	Shrinkage 3.5 MPa Expansion 3.2 MPa
Capillary absorption	EN 13057:2002	≤ 0.5 kg/m ² h ^{0.5}	0.04 kg/m ² h ^{0.5}
Modulus of elasticity in compression	EN 13412:2008	EN1504 Class R3 requires MoE in compression ≥ 15 Gpa	15.1 GPa
Coefficient of thermal expansion	EN 1770:1990	Declared value	16.9 x 10 ⁻⁶ /°C
Chloride Diffusion	Nordtest NT Build 443	–	0.6 x 10 ⁻¹² m ² /sec

Clarification of property values: The typical properties given above are delivered from laboratory testing. Results derived from field samples may vary.

*Excellent bond to concrete substrate after repeated wetting and drying cycles

Coverage and Yield

Renderoc ST 06:	Approximately 5.6 litres / 12 kg pack
	5.6m ² @ 1mm thick
	2.8m ² @ 2mm thick
	1.8m ² @ 3mm thick
	1.4m ² @ 4mm thick
	1.2m ² @ 5mm thick

Note: the actual yield per bag of Renderoc ST 06 will depend on the consistency used. The yield will be reduced if the material is applied by a spray technique. The coverage figures for liquid products are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.

Please refer to the Technical Data Sheet for further information on this product.

Product Details

Product Code	Description	Size
FC302031-2L	Renderoc ST 06 Liquid Part A	2L
FC302032-10KG	Renderoc ST 06 Powder Part B	10KG

Please refer to the Technical Data Sheet for further information on this product.

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