

Description

Rendercem® SC is a versatile single component polymer modified cementitious skim coat mortar cum surface pore filler specially designed for mineral surface fair facing applications. It is compatible with concrete and offers a durable base for Talrakote range of protective coatings.

Features & Benefits

- High quality tough and durable surface
- Provides an aesthetic, low maintenance surface
- Suitable for Talrakote range of applications
- Bonds well with concrete, cement and masonry substrates without any primer
- Self curing

Primary Application

Rendercem® SC is designed as a perfect solution for finishing skim coat plaster needs. It provides a high quality surface for internal and external walls, ceilings and R.C members that offers a durable base for the application of protective coating. It fills surface pores effectively with 'scrap-on and 'scrap-off' application using a putty blade. Typical uses include -

- Filling of surface imperfections of in-situ and precast concrete members
- Re-profiling and fair-facing applications with an application thickness up to 3mm.
- Used as a strong base for concrete surface protective coatings.

Technical properties

Rendercem® SC exhibits following properties when mixed at a water:powder ratio of 0.3 by weight.

Compressive strength @ 28days	10 - 15 MPa
Fresh wet density	1700 - 1900 kg/m ³
Potlife @ 30°C	75 mins
Setting time @ 30°C	360 mins
Pull off strength @ 28 days	1.50 MPa

The product is designed to cure by itself with out need of additional curing. It is compatible with Talrakote range of protective coatings.

Design Criteria

Rendercem® SC is designed to effectively fill all the surface discontinuities such as, pinholes, minor cracks and re-profiling the local undulations from a thin tapering edge upto 3 mm thickness. When exceptional bond strength is desirable, Talrakpolybond® SB may be added with mixing water. The amount of mixing water shall be reduced equivalent to the weight of Talrakpolybond® SB added. However, normal application does not need addition of Talrakpolybond® SB.

Specification Clause

The skim coat shall be a prepacked single component polymer modified cementitious re-profiling and pore filling mortar. Rendercem® SC bonds well to mineral surfaces without any primer when applied at a thickness up to 3mm.

Application Instruction

Surface Preparation

The mineral substrate has to be sound and solid as well as free of bonding inhibiting agents such as grease and oil. Remove all bond inhibiting substances such as laitance, loose particles, dust, form release agents etc. The substrate must be open pored so that Rendercem® SC can penetrate. Substrates have to be saturated (avoid standing water) prior to the application of Rendercem® SC. Dusty or salt-damaged substrates have to be brushed off with a wire brush, followed by cleaning with compressed air/ water jet

Mixing

Each 15 kg bag is mixed with 4.0 l to 4.5 l of clean water. Put 3/4 of water into a clean mixing vessel and add the powder in portions while continuously mixing using a slow speed mechanical mixer (under 400 rpm). Add in portions as much of the remaining water as necessary to achieve the desired consistency and mix until the mixture has a homogeneous texture. Mixing time is 3 to 4 minutes after all powder has been added to the liquid.

Application

The mixed Rendercem® SC is applied on a pre-wetted surface (no free surface water present) using a hawk & trowel with a total layer thickness not exceeding 3 mm (Toothed trowel can be used to control application thickness) and is trued using tools like a feather edge, a straight edge, or a long float trowel. Once the mortar starts to set it is smoothened using a float when used as a fairing or skim coat. For application as a pore filler, the mixed material is taken on a hawk and applied using a thin blade trowel with central handle. Scrap on the mortar with the trowel on the pores and scrap off excess material to fill surface pore without depositing any excess material on the substrate.

Curing

The material cures itself in ambient normal temperatures. However under extreme condition of high temperature and blowing winds, the applied surface may dry up fast. To prevent this use of Talrakcure® AS is recommended.

Cleaning

Cleaning of tools can be easily done by washing with clean water before the material hardens on the tools. Hardened materials can be cleaned by mechanical means.

Overcoating

Rendercem® SC can be used as a skim coat to enable the surface to receive protective coatings. Rendercem® SC may be overcoated after the material is cured. The curing time is generally 48 hrs. which may vary with temperature. Talrakote range of protective coatings may be applied on the cured Rendercem® SC.

Precautions

- Rendercem® SC Shall not be applied in the outdoor areas, if the rain fall is imminent. In such cases, the applied material should be protected from rain using temporary shelters.
- Rendercem® SC should not be applied on the surfaces with flowing water on them.
- When working at high temperatures exceeding 35°C. Unopened Rendercem® SC bags shall be stored in cool atmosphere (such as AC room) to bring down the temperature of the powder before application.
- Ensure readiness for the application of Rendercem® SC with adequate manpower tools, tackles and material to consume the mixed material within its potlife.

Estimating Packaging

Rendercem® SC is supplied in 15kg bag

Coverage

One bag of 15kg Rendercem® SC covers 3m² at 3 mm thickness. Practical coverage may vary depending on the flatness and general substrate conditions.

Storage

Rendercem® SC has a shelf life of 12 months if kept in dry store in original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions

Health & Safety Instructions

Contact with the skin should be avoided. In cases of contact with the skin, should be washed immediately with soap and water-not solvent. Gloves and goggles should be used when handling these products. Eye contamination must be immediately washed with plenty of water and medical treatment sought.



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