SUPERFER

Corrosion-Proof Cement Slurry for Steel Reinforcement

Description

SUPERFER is a two-component cement based corrosion-proof slurry. It is specially designed as a protection coating for steel reinforcement against corrosion. The component (A) is consists of hydraulic binders and special additives powder. Component (B) is a consists of selected liquid polymers and migrating inhibitors for corrosion. The two components must be mixed at the time of use to produce fluid slurry can be applied easily by brush.

Features & Benefits

- ➢ Excellent bonding to concrete and steel surfaces.
- ➢ High protection against corrosion.
- ➢ Designed for use with SBI concrete repair products.
- ➢ Excellent water and gas resistant.
- ➢ High Impermeability, resistant against CO_2 diffusion.
- ➢ Non-Toxic, Eco-Friendly
- ➢ High anodic passivation.

Uses

SUPERFER is designed to provide protection for steel reinforcement in the following applications:

- Primer and protection coat for reinforcement bars before applying cementitious repair mortars.
- Waterproof and corrosion protection coat for reinforcement steel if it will be exposed to atmosphere for long period
- Can be applied as bonding primer before applying cementitious repair mortars or for casting new concrete on old concrete.

Technical Properties

Consistency	Green Slurry
Mix Density	1,500 Kg/m^3 approx.
Mix Pot Life	45 minutes @ 25 ^{o}C
Bond Strength on concrete	>1.8 N/mm^2
Bond strength on Steel	>2.0 N/mm^2
Slant shear bond strength	20 N/mm^2

pH for mixture	12-13
Rapid Chloride Permeability	Low
VOC	<1.0 g/L

All values are subject to 5-10% tolerance

Standards Compliance

- DIN 55 928 Part Sa 21/2
- ISO 8501-1

Application Procedures

Surface preparation:
Steel reinforcing bars should be cleaned from weak concrete, grease substances and rust. Sand blasting would be advisable for cleaning deep rust. Continue cleaning until removing all the rust. As an alternative, cleaning with mechanical or hand-brushing can be used.

Mixing Instructions:

SUPERFER is supplied in a two-component kit consisting of powder component and Latex Liquid. The product should be mixed in the proportions supplied, adding the entire contents of the 'latex' part to the 'powder' part. The two components should be thoroughly mixed together for 3 minutes to obtain a homogeneous mix.

Application Instructions:

The mixture must be applied immediately after preparation.
Apply **SUPERFER** using a brush in one coat. If necessary to apply second coat, it should be applied at a right angle to the previous coat after 24 hours from the previous coat.
Make sure that the whole iron surface is completely covered. The average thickness of **SUPERFER** should not be less than 1 mm.
SUPERFER increases significantly the adhesion of mortar to steel reinforcement.
Repairing mortars can be applied after minimum 4 to 5 hours from the time of applying **SUPERFER**

Yield / Coverage

1.5 Kg per square meter at thickness of 1mm.

Packaging

SUPERFER is available in 2 kg two-component kit.

Storage

Keep the product in dry and sheltered place at temperature between +5ºC to +35ºC. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

REV 00-1017

SALES OFFICE : Dubai, Barsha, Rasis Business Center Tel.+971 4 3999927
FACTORY : RAK, Jazerat Al Hamra Tel. +971 7 2210066
Fax. +971 7 2433821
P.O.Box 14569
www.sbi-me.com , **info@sbi-me.com**