



Nitocote® Polycem

Anticorrosive protection for rebars

Uses

To provide a passivating protective matrix for reinforcing steel. As a bonding agent for use with the Renderoc range of repair mortars.

Advantages

- Prevents further corrosion of steel
- Excellent bond to steel
- Hydraulic cement based - total compatibility with concrete
- Prepacked system

Description

Nitocote Polycem is a specially formulated polymer bonding slurry designed to protect steel such as rebars.

Nitocote Polycem is a single part system consisting of an acrylic emulsion. It has to be mixed with cement at site to produce an easily brushable coating. The slurry can be easily applied by brush to steel to form a continuous protective coating.

Nitocote Polycem ensures excellent bonding of repairs whilst providing a protective matrix around reinforcing steel. Nitocote Polycem restores the alkalinity around the concrete reinforcement and thus prevents further corrosion.

Technical support

Fosroc offers a comprehensive range of high performance, high quality concrete repair and construction products. In addition, Fosroc offers technical support service to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the country.

Properties

Pot life	45 min at 25°C
Colour	White
Application temperature	Not less than 10°C
Adhesion to steel	Excellent
Bond strength to concrete	Excellent
Toxicity	Non-toxic

Application instructions

Steel preparation

Expose fully, any corroded steel in the repair area and remove all loose scale and corrosion deposits. Steel should be cleaned to a bright condition paying particular attention to the back of exposed steel bars. Any rust, millscale and other impurities should be removed from the substrate by blast cleaning to SA 2½.

Where corrosion has occurred due to the presence of chlorides, the steel should be high pressure washed with clean water immediately after grit sand blasting to remove corrosion products from pits and imperfections within its surface.

Mixing

Mix Nitocote Polycem in 1:1:3 proportion (1 part Nitocote Polycem : 1 part water : 3 parts Cement) by stirring thoroughly until a smooth lump free slurry is obtained.

Application as an anticorrosive coating

The application of Nitocote Polycem must take place as soon as possible to the dry steel surface after completion of the preparation work but always within 3 hours.

Apply one full and unbroken coat of Nitocote Polycem by suitable brush making sure the surfaces of the steel are properly coated. A small brush is generally suitable for this purpose. Allow to dry fully before continuing. If in doubt about having achieved an unbroken coating, a second application should be made as soon as the first coat is fully dry.

The primed surfaces should not be left exposed to the elements for longer than necessary. Nitocote Polycem will, however, protect steel under clean interior exposure conditions for a period of several months. In non-aggressive exterior environments, a maximum interval of 14 days will be tolerated but in industrial and/or marine environments this interval should be reduced to the practical minimum.

The application of concrete repair materials should proceed as soon as the Nitocote Polycem is fully dry.

Nitocote® Polycem

Estimating

Packaging

Nitocote Polycem is supplied in 5, 20 & 200 litre packs.

Coverage per pack

When mixed in 1:1:3 proportion, 1 Ltr. of Nitocote Polycem will cover 85-90 running meters of a 16Ø torsteel bar.

Storage

Store under normal warehouse conditions.

Shelf Life

6 months in unopened original containers.

Precautions

Health and Safety

Care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

Additional information

The Fosroc range of associated products includes high strength cementitious, epoxy grout, polyester resin based mortar for rapid presetting of steel shims to level or for direct bedding of small base plates; Resin anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available a range of products for use in construction; viz. admixtures, curing compounds, release agents, flooring systems and repair mortars.

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Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.



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