Fosroc®
Nitoprime® Zincrich

constructive solutions

Zinc-rich epoxy resin primer to protect steel reinforcement within repair mortars

Uses

Nitoprime Zincrich is the recommended anti-corrosion primer for exposed steel reinforcement for use with Renderoc concrete repair mortars. The product provides a barrier to further corrosive elements such as chlorides attacking the steel. Compatible with all Renderoc mortars and fluid micro-concretes.

Advantages

- Excellent protective barrier to the steel from further corrosive attack
- Formulated for use with Renderoc repair products
- Single component product - easy to use with no restrictive pot-life
- Time saving - touch dry after 15 - 45 minutes
- Economical - single component ensures almost no waste

Standards Compliance

Nitoprime Zincrich has been approved by the British Board of Agreement, Certificate No. 91/2582 as part of the Renderoc system of concrete repair.

Conforms to AS/NZS 3750.9 Type 1.

Description

Nitoprime Zincrich, an epoxy zinc primer, is supplied as a single component grey-coloured liquid based on metallic zinc and epoxy resins.

Design Criteria

One or two coats of Nitoprime Zincrich are generally required, dependent largely on nature and profile of the steel substrate. Nitoprime Zincrich is recoatable generally between 30 minutes and 1 hour after the initial application. Application of concrete repair materials may also proceed at this time. At elevated temperatures, the recoatable and overlay times will be reduced. The minimum application temperature for Nitoprime Zincrich is 5°C.

Specification Clause

Steel reinforcement primer

The steel reinforcement primer shall be Nitoprime Zincrich, a single-component zinc epoxy primer. An unbroken 50 microns thick coating shall be capable of providing a protective barrier to further corrosive elements attacking the steel. It shall be a suitable viscosity to enable the coating to penetrate imperfections and pits within the surface of corrosion-damaged steel bars.

It shall be fully compatible with the Renderoc system of concrete repair.

Properties

Recommended thickness per coat:	50 microns (dry)
Application thickness per coat:	120 microns (wet)
Drying times – Touch dry:	
@ 20°C	45 minutes
@ 35°C	15 minutes
Fully dry/recoatable:	
@ 20°C	50 minutes - 1 hour
@ 35°C	20 - 45 minutes
VOC content:	518g / litre

Note: At temperatures below 20°C, drying times will be slower. Conversely, at temperatures above 35°C, drying times will be faster.

Application Instructions

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. Grit-blasting is recommended for this process.

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

Application

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

Although a single component product, it should be stirred thoroughly before use in order to redisperse any settlement.

Apply one full and unbroken coat of Nitoprime Zincrich by suitable brush, making sure that the back of exposed steel reinforcing bars are properly coated. A small brush is generally more suitable for this purpose. Allow to dry fully before continuing. If any doubt exists about having achieved an unbroken coating, a second application should be made as soon as the first coat is fully dry (generally between 30 minutes and 1 hour).

The primed surfaces should not be left exposed to the elements for longer than necessary before overcoating or application of the repair material. Nitoprime Zincrich 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 Nitoprime Zincrich is fully dry (generally 30 minutes to 1 hour - see under Properties).

Low temperature working

The minimum application temperature is 5°C. The material should not be applied when the substrate and/or air temperature is 5°C and falling. At 5°C stable temperature or at 5°C and rising, the application may proceed.

Cleaning

Remove material from tools, equipment and mixers with Fosroc Solvent 10 immediately after use.

Limitations

Nitoprime Zincrich should not be applied when the temperature is below 5°C or is 5°C and falling.

Supply

Nitoprime Zincrich 1 litre:	FC022100-1L
Fosroc Solvent 10:	4 and 20 litre cans

Coverage

Nitoprime Zincrich:	8 m²/litre (approx.)

Note: this coverage figure is theoretical - due to wastage actors and the variety and nature of possible steel substrates, practical coverage figures will be reduced.

Storage

Nitoprime Zincrich has 12 months shelf life if kept in dry store in original, unopened packaging.

If stored at high temperatures the shelf life may be reduced.

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