

Nitoprime Zincrich

2- Components High Build Zincrich Primer

Uses

Nitoprime Zincrich is the recommended anti-corrosion primer for exposed steel reinforcement for use with Fosroc concrete repair mortars. The product actively resists corrosion within the confines of the repair location and avoids the generation of incipient anodes in immediately adjacent locations.

Nitoprime Zincrich, an electrically conductive coating, is fully compatible with all Renderoc mortars, fluid micro-concretes and certain electrochemical products.

Advantages

- 'Active' Zinc-rich system combats corrosion by electro-chemical means
- Formulated for use with Renderoc repair products
- Pre-weight 2-component product - easy to mix
- Time saving - fast drying time

Standard compliance

Water bye-laws scheme - approved product.

The product has also been approved by the British Board of Agreement, Certificate No 98/3461 as part of the Renderoc System of concrete repair.

Description

Nitoprime Zincrich is supplied as a 2-components grey coloured liquid based on metallic zinc.

Design criteria

One or two coats of Nitoprime Zincrich are generally required, dependent largely on the nature and profile of the substrate. Nitoprime Zincrich is re-coatable generally after 3 hours at 20°C and 65% relative humidity after the initial application.

Application of concrete repair materials may also proceed at this time. At elevated temperatures, the re-coatable and overlay times will be reduced. The minimum application temperature for Nitoprime Zincrich is 10°C. Consult the local Fosroc office for further information.

Technical support

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

Properties

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| Specific gravity: | 2.40 |
| Recommended thickness /coat: | |
| Wet Film Thickness | 105 – 145 µm |
| Dry Film Thickness | 50 - 75 µm |
| Tack Free Time @ 145 µm | 15 minutes |
| Solid Content: (BS4652) | 50% |
| Salt spray test (BS4652): | Passed |

Specification clauses

Steel reinforcement primer

The steel reinforcement primer shall be Nitoprime Zincrich, a two component zinc-rich liquid, packed and supplied ready to use. An unbroken 50 microns thick coating shall be capable of providing 'active' galvanic protection within the repair zone.

It shall be a suitable viscosity to enable the coating to penetrate imperfections and pits within the surface of corrosion damaged steel bars.

The formulation of the primer shall be such that drying occurs to allow the application of the repair mortar to proceed after 3 hours at 20°C. It shall be fully compatible with the Renderoc system of concrete repair.

Instructions for use

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 with particular emphasis to the back of exposed bars. Grit blasting is recommended for this process.

Where corrosion has occurred due to the presence of chlorides, the steel should be high pressure washed with clean water immediately following 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.

Nitoprime Zincrich

As a 2-components product, mix the hardener into the base and stirred thoroughly before use in order to achieve a uniform mix and to disperse any settlement. Apply one full and unbroken coat of Nitoprime Zincrich by suitable brush, making sure that the back of exposed reinforcing bars are fully 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 (after 3 hours).

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 3 hours after the application of top coat).

Cleaning

Nitoprime Zincrich should be removed from tools, mixers and equipment with Fosroc Solvent 102* immediately after use.

Estimating

Supply

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| Nitoprime Zincrich: | Part A – 750 ml can Part B – 250 ml can |
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| Fosroc Solvent 102: | 5 litre cans |
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Coverage

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| Nitoprime Zincrich: | 7.0 m ² /litre @ 75 µm |
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Storage

Shelf life

Nitoprime Zincrich has a shelf life of 6 months and Fosroc Solvent 102 has a shelf life of 12 months, if kept in a dry store in the original unopened packs.



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of 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 of information given by it.

Fosroc (Thailand) Limited

777/9 Moo 7,
Bangplee-Tamru Road,
Bangplee Yai, Bangplee,
Samutprakarn 10540 Thailand

telephone:
+66 (0)2325 0913-15

fax:
+66 (0)2337 3551

email:
thailand@fosroc.com

Precautions

Health and safety

Nitoprime Zincrich and Fosroc Solvent 102 should not come in contact with skin or eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye protection.

If working in confined areas, suitable respiratory equipment must be used.

The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of skin contact with Nitoprime Zincrich, remove immediately with resin removing cream followed by washing with soap and water.

Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting.

Fire

Nitoprime Zincrich and Fosroc Solvent 102 are flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO₂ or foam. Do not use a water jet.

Flash points

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| Nitoprime Zincrich: | 4°C |
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| Fosroc Solvent 102: | 33°C |
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Additional information

Fosroc manufactures a wide range of complementary products which included :

- Waterproofing membranes & waterstops
- Joint sealants & Filler boards
- Cementitious & epoxy grouts
- Specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete.

For further information on any of the above, please consult your local Fosroc office – as below