

## 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
- Complies with AS4020:2018 - suitable for use in drinking water.

### 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.

Nitoprime Zincrich has been tested to comply with AS4020:2018. Refer to AWQC Report 354931. Copies of the certification are available from the Fosroc website.

### Description

Nitoprime Zincrich, a 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.

## Properties

<b>Recommended thickness per coat:</b>	50 microns (dry)
<b>Application thickness per coat:</b>	120 microns (wet)
<b>Drying times – Touch dry:</b>	
@ 20°C	45 minutes
@ 35°C	15 minutes
<b>Fully dry/recoatable:</b>	
@ 20°C	50 minutes - 1 hour
@ 35°C	20 - 45 minutes
<b>VOC content:</b>	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 flaky corrosion deposits. Grit blasting or high pressure water 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

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

### Application of Nitoprime Zincrich

- Nitoprime Zincrich must be applied to a dry steel surface within 3 hours of steel preparation.
- Apply one full and unbroken coat using a suitable brush.
- Ensure the back of exposed steel reinforcing bars are properly coated.
- Allow to dry fully before continuing.
- If an unbroken coating is not achieved, apply a second coat as soon as the first coat is fully dry (recoat time is generally between 30 minutes and 1 hour depending on temperature).

### Repair Mortar Application:

- The repair mortar can be applied over Nitoprime Zincrich as soon as it is fully dry.
- The drying time is dependent on environmental conditions but typically ranges between 30 minutes and 1 hour.
- In non-aggressive exterior environments, a maximum interval of 14 days is acceptable to apply the repair mortar.
- In industrial and/or marine environments, the interval should be reduced to the practical minimum.

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## Nitoprime® Zincrich

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### 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:	FC322100-1L
Fosroc Solvent 10:	4 and 20 litre cans

### Coverage

Nitoprime Zincrich:	8 m²/litre (approx.)
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Note: this coverage figure is theoretical - due to wastage factors and the variety and nature of possible steel substrates, practical coverage figures will be reduced.

### Storage

Nitoprime Zincrich should be stored in original packaging in a cool, dry area.

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

### Important notice

A Safety Data Sheet (SDS) is available from the Fosroc website. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

### Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.



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