



# Nitozinc<sup>®</sup> Primer(M)

## Two component epoxy zinc primer

### Uses

Nitozinc Primer (M) is the recommended anti-corrosive primer for exposed steel reinforcement and structural steel on site. The product actively resists corrosion and avoids the generation of incipient anodes in immediately adjacent locations.

### Advantages

- Active 'Zinc-rich' system combats corrosion by electro chemical means.
- Formulated for use with Nitocote protective coatings and enamel paints
- Two component product - easy to mix and use.

### Description

Nitozinc Primer (M) is supplied as a two component system based on metallic zinc and epoxy resin which on mixing gives a grey coloured liquid.

### Technical support

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

### Design Criteria

One or two coats of Nitozinc Primer (M) are generally required, dependent largely on the nature and profile of the substrate. Nitozinc Primer (M) is overcoatable generally between 30 minutes and one hour after the application of first coat. Application of top coating may also proceed at this time. At elevated temperatures, the recoatable and overlay times will be reduced. The minimum application temperature for Nitozinc Primer(M) is 10<sup>0</sup>. Consult the local Fosroc office for further information.

### Properties

Specific gravity	1.75	
Application thickness	100 microns (wet) per coat	
Dry film thickness	per coat 25 microns	
Drying times	@ 20 °C	@ 35 °C
Touch dry	45 min	15 min
Recoatable	45 min to 1 hour	20-45 min
Pot life	3 hours	2 hours

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

### Specification clauses

#### Structural steel

The structural steel primer shall be Nitozinc Primer (M) , a two component zinc rich liquid packed and supplied ready to use. An unbroken 25 microns thick coating shall be capable of providing 'active' galvanic protection. It shall be of suitable viscosity to enable the coating to penetrate into imperfections and pits within the surface of the structural steel.

The formulation of the primer shall be such that drying occurs to allow the application of the topcoat to proceed after 20 to 45 minutes at 35 °C or after 30 minutes to one hour at 20 °C. It shall be fully compatible with the Nitocote Protective coating or other enamel paints.

### Application instructions

#### Preparation

Expose fully any corroded steel 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 the 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 Nitozinc Primer (M) 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 two component product, it should be stirred thoroughly before use in order to redisperse any settlement.

Apply one full and unbroken coat of Nitozinc Primer (M) 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 of 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 one hour)

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The primed surfaces should not be left exposed to the elements for longer than necessary before overcoating. Nitozinc Primer (M) 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.

## Low temperature working

The minimum application temperature is 10<sup>o</sup> C. The material should not be applied when the substrate and/or air temperature is 10<sup>o</sup> C and falling. At 10<sup>o</sup> C static temperature or at 10<sup>o</sup> C, and rising, the application may proceed.

## Cleaning

Nitozinc Primer (M) should be removed from tools, equipment and mixers with Nitoflor Sol immediately after use.

## Limitations

Nitozinc Primer(M) should not be applied when the temperature is below 10 °C or below 10 °C .

## Estimating

### Packaging

Nitozinc Primer (M)	20 litre Pack
Nitoflor Sol	5 litre containers

### Coverage

Nitozinc Primer (M)	8 m <sup>2</sup> / litre/coat
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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 may be reduced.

### Storage

### Shelf life

Nitozinc Primer (M) has a shelf life of 6 months if kept in dry store in the original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

### Precautions

### Health & Safety

Nitozinc Primer (M) and Nitoflor Sol should not come in contact with the skin and 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.



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### Important note :

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