

## Epoxy Micaceous Iron oxide middle coat for Protection System of concrete and steel surfaces

### Uses

Used as a corrosion resistant layer in multilayer coating protection system of concrete and steel.

### Advantages

- Micaceous Iron oxide based corrosion resistance.
- Economical and durable
- Easy application

### Description

Nitocote EP110 is a two component micaceous Iron oxide middle coat based on epoxy-polyamide applied at a wet-film thickness of 175 microns.

### Properties

Product	Pot life at 35°C	Overcoating time	WFT (microns)	DFT (microns)	Coverage m <sup>2</sup> /L
Nitocote EP50	4 hours	2 hours	100	50	5- 6m <sup>2</sup>
Nitocote EP110	4 hours	6 hours	175	110	4 - 5m <sup>2</sup>
Dekguard PU	3 hours	2 hours	110	40	9 - 10 m <sup>2</sup>
Nitozinc Primer	30 mts	30 mts	100	40	4 - 5 m <sup>2</sup>

Below 35°C the pot life and over coating times are longer.

### Application instructions

#### Surface Preparation

##### Steel

Any corroded steel shall be fully exposed and all loose scale and corrosion deposits shall be removed. 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.

##### Concrete

Surface to be coated must be structurally sound dry and free from loose material. All surface contamination must be removed. Grease and oil should be grit blasted. Any laitence must be removed from concrete surface by etching with Reebaklens then washed off and dried. New concrete should be allowed to cure for at least 28 days prior to priming.

### Priming

#### Steel

For steel surfaces, the primer shall be Nitozinc Primer, an epoxy two component zinc rich liquid packed and supplied for ready to use. An unbroken 40 microns DFT coating shall be capable of providing active galvanic protection.

Two coats can be applied at a total DFT of 80 microns with a interval of 30 mins - 60 mins.

#### Concrete

Concrete surfaces should be primed with Nitocote EP50. Nitocote EP50 is a two component red oxide primer based on epoxy-polyamide applied at a WFT of 100 microns

### Mixing

Both components shall be mixed until a homogeneous mixture is obtained. It is important that both the components are intermixed thoroughly and that no traces of the components remain unmixed. A slow speed heavy duty drill fitted with a paddle is recommended for mixing.

### Application

Nitocote EP110 can be applied to the primed steel or concrete surface at a DFT of 110 microns. Nitocote EP110 can be applied at a WFT of 175 microns to achieve DFT of 110 microns.

Two coats can be applied to achieve a total DFT of 220 microns. After drying, it should be over coated with Dekguard PU for achieving UV resistance.

### Temperature limitations

Minimum application temperature 15°C. At temperatures, below 15°C and over 40°C, please contact your local Fosroc office.

### Estimating

#### Packaging

Nitocote EP50	:	4 / 20 litre pack
Nitocote EP110	:	4 / 20 litre pack
Nitozinc Primer	:	1 / 5 litre pack
Dekguard PU	:	4 / 20 litre pack
Nitoflor Sol	:	5 and 20 Ltr Cans
Reebaklens	:	5 and 20 Ltr Cans

# Nitocote EP110

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## Storage

### Shelf Life

All the above products have a shelf life of 12 months if stored in unopened containers below 35°C.

Minimum application temperature : 15°C. At temperatures below 15°C and over 40°C, please contact your local Fosroc technical representative.

### Coverage

Please refer to the table given above for individual product coverages. However the practical coverage may vary depending on the surface condition.

## Precautions

### Health and Safety

Some people are sensitive to epoxy resin systems and they may develop dermatitis on skin contact. Gloves and barrier creams should be used while handling the materials. If contact with skin or eyes occurs, wash with plenty of water. DO NOT USE SOLVENT. If irritation persists, seek immediate medical advice. Smoking and naked flame should be avoided while using the materials

### 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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