

Epoxy resin based Micaceous Iron Oxide coating for steel and concrete surfaces

Uses

A chemical resistant coating for steel tanks, concrete walls, bridges, concrete and metal columns, sluices and ducts.

Advantages

- Excellent chemical resistance
- Excellent adhesion
- Equally effective on concrete and metal substrates
- Hygienic smooth surface
- Tough, abrasion resistant film

Description

Nitocote EP140(M) is based on epoxy polyamide resins and MIO specially formulated to provide a durable coating suitable for application to both vertical and horizontal surfaces. It cures to form a smooth film of 80 microns dft, with good resistance to a wide range of chemicals and ultraviolet light.

Technical Support

Fosroc provides a technical advisory service supported by a team of specialists in the field.

Properties

	at 20°C	at 35°C
Pot life	3 hrs	1 1/2 hrs
Cure Time	4-7 hrs	2-5 hrs
Time between coats	5-7 hrs	3-5 hrs
Initial Hardness	24 hrs	18 hrs
Full Cure	7 days	5 days

Specific gravity : 1.20 to 1.25 g/cc

Below 20°C these times will be increased.

Specification clauses

Protective surface coating

The protective coating shall be Nitocote EP140(M), a two part, MIO epoxy polyamide coating capable of providing chemical resistance to surfaces. The cured film shall provide a smooth surface with a DFT of 80 microns. Nitozinc Primer with a DFT of 40 microns shall be applied on steel surfaces prior to the application of Nitocote EP140(M).

Application instructions

Where relevant, the applications and preparation should conform to the British Standard Code of Practice CP3003:Part 5, 1966. The advice given below is a summary.

Preparation

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 or water jetted. Deeper penetration must be removed by mechanical means. Any laitance 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. The moisture content in the base concrete should be less than 5% when tested with a hygrometer.

It is essential that Nitocote EP140(M) is applied to sound clean, dry substrates in order to achieve maximum adhesion between the coating and substrate.

Mixing

Before mixing, the contents of each can should thoroughly stirred to disperse any settlement which may have taken place during storage.

The entire contents of the smaller hardener can should be poured into the base container and the materials thoroughly mixed for at least 3 minutes. Mechanical mixing using a slow speed (300 - 500 rpm) flameproof drill fitted with a mixing paddle is recommended.

Coating

Apply the mixed Nitocote EP140(M), to the dry, prepared substrate making sure a continuous film is achieved using a standard paintbrush, good quality lamswool roller or spray equipment.

Cleaning

Tools and equipment should be cleaned with Nitoflor Sol immediately after use.

Temperature limitations

Minimum application temperature 15°C

At temperatures below 15°C and above 40°C, please contact your local Fosroc office for guidance.

Nitocote® EP140(M)



Estimating

Packaging

Nitocote EP140(M)	4.0 litre pack
Nitozinc Primer	1 and 5 litre packs
Nitoflor Sol	5 and 20 litre cans
Reebaklens	5 and 20 litre cans

Coverage

Nitocote EP140(M)	10 m ² / litre/coat @ 100 microns wft.
Nitozinc Primer	8 m ² / litre

These above figures are for guidance only. Actual coverage depends on the porosity of the substrate, application thickness etc. On steel substrates, primed with Nitozinc Primer, the coverage will be around 5 m² per litre for the first coat and around 6 - 7 m² for the second coat.

Storage

Shelf life

6 months if stored below 35 deg.c in unopened containers.

Precautions

Health & Safety

Some people are sensitive to epoxy resin systems and may develop dermatitis on skin contact. Gloves and barrier creams should be used when handling primers and Nitocote EP140(M). If contact with the skin occurs, wash with soap and copius amounts of water. DO NOT USE SOLVENT. Direct contact with the eyes will cause irritation and may cause serious damage if left untreated. Any eye contamination should be washed thoroughly with plenty of water and immediate medical treatment sought. The use of goggles when mixing is recommended. Smoking to be avoided.

Fire

Nitocote EP140(M) and Nitoflor Sol are flammable. Ensure adequate ventilation when using primers and solvents and do not use near a naked flame.

Flash Point

Nitoflor Sol	33 °C
Nitocote EP140(M)	25 °C



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