Nitocote PE135

constructive solutions

Eco friendly, protective coating based on hydrophobic polyester resin

Uses

Provides a highly effective protective coating, with chemical and abrasion resistance to prevent corrosion of concrete substrates and exhibits cost and labour saving supplementary benefits. It can be used in a wide range of applications :

- Suitable for underground protection, foundations etc.
- Dual purpose protective coating and curing compound.

Advantages

- Can be applied on damp concrete which is one day old.
- Cost saving, material which can be used as a protective coating and curing compound in a single application.
- Single pack - no component mixing, no wastage, multiple applications from single pack
- Labour saving, single component material which is also water based, and therefore non-toxic.
- UV stable - will not fade or deteriorate in strong sunlight.
- Environmentally friendly, solvent, pitch and asbestos free and can be used in confined spaces.
- Excellent service life - resistant to chloride and sulphate ions plus a wide range of chemicals.
- Durable finish - offers good abrasion resistance.

Standards compliance

Nitocote PE135 complies with the concrete curing requirements of ASTM C309, when applied at the rate of 5m^2 per litre.

Description

Nitocote PE135 is a single component, high performance, grey colour viscous liquid coating based on hydrophobic polyester resin. It is totally free from hazardous materials/ carcinogens such as coal tar pitch, hydrocarbon based solvents, aromatic amines etc. The coating displays its protective properties at a minium DFT of 200 microns.

Specification

Where shown on the contract documents, below ground surfaces shall be protected with two coats of Nitocote PE135, a ` hydrophobic polyester emulsion coating applied at a rate of 400-500 microns wet film thickness per coat.

Properties

Specific gravity (20°C)	:	1.28 g/cm^3
Solids content by weight	:	53%
Solids content by volume (ASTM D2697)	:	43%
Surface drying time (ASTM D1640)	:	35 - 40 min @ 20°C 10 - 15 min @ 35°C 04 - 06 min @ 45°C
Overcoating time (ASTM D1640)	:	6 - 7 hours @ 20°C 3 - 4 hours @ 35°C 2 - 3 hours @ 45°C
Complete cure	:	7 days @ 25°C
Water absorption (BS 1881 Pt. 122)	:	< 0.2%
Water permeability (BS EN 12390,: Part 8)	:	Nil
Adhesion strength (ASTM D4541)	:	>1.0 N/mm^2

Chemical resistance

Lactic acid 20%	:	Excellent
Acetic acid 20%	:	Excellent
Nitric acid 5%	:	Excellent
Ethylene glycol 40%	:	Excellent
Copper Sulphate 25%	:	Excellent
Zinc Sulphate 25%	:	Excellent
Magnesium Sulphate 25%	:	Excellent
Tap water	:	Excellent
Sea water	:	Excellent
Ground water	:	Excellent
High sulphate water	:	Excellent
Distilled water	:	Excellent

For resistance to other chemical, consult the local Fosroc representative.

Nitocote PE135

Instructions for use

Surface preparation

All surfaces must be clean and free from laitence, dirt, dust, oil and grease. In case of porous substrates, pre-soak the surface with potable water for 30 minutes. Ensure excess water is removed prior to application of Nitomortar PE135.

Application

Nitocote PE135 should be applied by roller to prepared surfaces. Stir well before use, replace lid when not in use. Soak up any spillage with water and wash down immediately.

Vertical applications can be achieved by single coat application upto a maximum wft of 600 microns per coat. For multiple coat application, the second coat should be applied at right angles to the first within the stated overcoating times. All applications should be continued up verticals to the existing damp proof course. Ensure that the coating is not damaged during subsequent applications.

Repairs

Any damaged areas can be readily overcoated to restore the membrane continuity. The surface is to be properly prepared using emery cloth to rub down the surface to provide a key and is to be made dust free, prior to product application.

Cleaning

Nitocote PE135 can be removed using only clean water, whilst still damp. If left to dry, then use a scourer.

Limitations

- Application should not commence below 10°C or above 50°C.
- Do not apply on running or standing water or when there are chances of rain.
- Exposure to chemicals may result in slight colour change over time.

Estimating

Supply

Nitocote PE135	:	20 litre pails

Theoretical coverage

General use	:	2.5m² per litre @ 400 micron wft/coat (2 coat application recommended) (actual coverage rates will depend upon substrate porosity)
Curing compound	:	5m² per litre per coat to give 200 micron wft

Storage

Nitocote PE135 will have a minimum shelf life of 12 months if stored in normal warehouse conditions at less than 25°C.

Health and safety

Some people are sensitive to resins and solvents, so gloves and barrier creams (e.g. Kerodex Antisolvent) should be used when handling these products. Remove any contamination from the skin with soap and water, or resin removing creams (e.g. Kerocleanse Standard Grade Skin Cleaner) followed by washing with soap and water. Do **not** use solvent.

The use of goggles is also recommended, but should accidental eye contamination occur, wash thoroughly with plenty of clean water and seek medical treatment immediately.

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† See separate data sheet

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