

Nitocote® PE135

Eco friendly, waterproofing cum protective coating based on hydrophobic polyester resin

Uses

Provides a highly effective waterproofing cum protective coating, with chemical and abrasion resistance to prevent corrosion in reinforced concrete members 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 waterproofing cum protective coating on damp concrete/ masonry.

Advantages

- Can be applied on damp concrete which is one day old.
- Cost saving, material which can be used as a protective coating and waterproofing agent 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.
- Suitable for potable water contact.

Standards compliance

Nitocote PE135 also complies with the concrete curing requirements of ASTM C309, when applied at the rate of 5m² 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.

Specification

Where shown on the contract documents, below ground surfaces shall be protected with Nitocote PE135, a hydrophobic polyester emulsion coating at a rate of 400 microns wet film thickness.

Properties

Density @ 27°C	: 1.28 ± 0.03 g/cc
Solids content by weight	: 54 ± 2%
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%
Reduction in water absorption (BS 1881 Pt. 122)	: >90%
Water permeability (DIN 1048: Pt. 5)	: Nil
Adhesion strength (ASTM D4541)	: >1.0N/mm ²
Curing efficiency (applied on 24 hrs cured mortar) (ASTM C309)	: moisture loss <0.55 kg/m ²
UV resistance (ASTM D4459)	: No undue change in colour observed on exposure to UV
Carbon dioxide diffusion resistance (EN 1062-6): 2015	: 124.10 m
Global Migration Test	: < 0.8 mg/ sq. in
Chemical resistance (ASTM D543)	
Acids (m/v)	
Lactic acid 20%	: Excellent
Acetic acid 20%	: Excellent
Nitric acid 5%	: Excellent
Solvents & organics	
Ethylene glycol 40%	: Excellent
Aqueous solutions	
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. Incase of porous substrates, spray liberalquantity of water on the substrate, prior to commencement of application.

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.

Apply Nitocote PE135 at the rate of 2.5m² per litre, in two coats to give a minimum wet film thickness of 400 microns.

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.

Estimating

Supply

Nitocote PE135	:	4 litre & 20 litre packs
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Theoretical coverage

General use	:	2.5m ² per litre @ 400 micron wft (200 micron DFT) in 2 coats (200 microns wft/coat) (actual coverage rates will depend upon substrate porosity)
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Curing compound	:	5m ² per litre per coat to give 200 micron WFT
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Storage

Nitocote PE135 will have a minimum shelf life of 6 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.

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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