



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

Nitocote SN511 Data Sheet

Specification notes

Product: **Nitocote SN511**

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Nitocote SN511

constructive solutions

Monomeric silane water repellent penetrant

Uses

A penetrating treatment designed to protect concrete from both water and chloride ingress whilst still permitting water vapour transmission (breathability).

Advantages

- Markedly reduces water and chloride ingress
- Deep penetration into substrates
- Non-staining
- Increases freeze thaw resistance
- Minimises efflorescence
- Chemically resistant to de-icing compounds and atmospheric contaminants

Description

Nitocote SN511 has a 95% active content of monomeric alkyl (isobutyl) trialkoxy silane which penetrates deeply into porous substrates and then reacts to produce a bonded hydrophobic lining to the pores.

This treatment markedly reduces absorption of water and water-borne salts, but still permits passage of water vapour.

The treatment is not affected by UV light and does not produce any discolouration of the substrate.

Standards compliance

Conforms to DTp Specification BD43/03 and BD43/90 and BA33/90.

Properties

| | |
|-------------------|-------------------|
| Specific gravity: | Approximately 0.9 |
| Purity: | Minimum 95% |
| Refractive index | 1.396 +/- 0.004 |

Application instructions

Preparation

Surfaces should be dry and free from contamination such as oil, grease, loose particles, decayed matter, moss or algal growth, laitance and traces of mould oils and curing compounds, or other mechanical means.

Protect plants, glass, asphalt, bitumen, plastics and all painted surfaces prior to application.

Application

In order to obtain the penetrating properties of Nitocote SN511, it is important that the correct rates of application and overcoating times are observed.

| | |
|--|---------------------------|
| Number of coats: | 2 flood coats |
| Theoretical application rate per coat: | 0.3 litres/m ² |
| Overcoating time at 20°C: | Minimum 6 hours |

Nitocote SN511 should be applied by a continuously circulating pumped system at a nozzle pressure of 0.06 to 0.07 N/mm² (8 to 10 lbf/in²). Nitocote SN511 should be applied evenly by saturation flooding using a wet spray without misting, working from the bottom up. Two applications shall be made, each at a minimum rate of 300 ml/m². The interval between applications shall be a minimum of 6 hours (at 20°C) before continuing.

Surfaces should be protected from rain and spray during application and for at least 6 hours after completion.

Cleaning

Equipment should be cleaned with Fosroc Solvent 102 immediately after use. Any spillages should be absorbed with sand or sawdust etc., and disposed of in accordance with local regulations.

Estimating

Packaging

| | |
|---------------------|---------------------|
| Nitocote SN511: | 25 litre container |
| Fosroc Solvent 102: | 5 and 25 litre tins |

Coverage and yield

| | |
|-----------------|--|
| Nitocote SN511: | 0.3 litres/m ² per coat (minimum) |
|-----------------|--|

Limitations

The application of Nitocote SN511 should not commence if temperatures are below 5°C and falling or if the concrete surface temperature is above 25°C.

Nitocote SN511 hydrolyses with atmospheric moisture. Material from opened containers should be used within 48 hours or discarded.

There is a possibility of colour change on some types of polymer modified facing materials and white cement. A trial area is recommended.

Nitocote SN511

Storage

Shelf life

12 months when stored in original unopened containers.

Storage conditions

Nitocote SN511 and Fosroc Solvent 102 should be stored in a cool dry place away from sources of heat or naked flames.

Precautions

Health and safety

For further information refer to appropriate Product Safety Data Sheet.

Overspray

Precautions must be taken to control overspray when working adjacent to vehicular roadways, pedestrian walkways and water courses.

Fire

Nitocote SN511 and Fosroc Solvent 102 are flammable.

Do not expose to naked flames or other sources of ignition. No Smoking. Containers should be tightly sealed when not in use. In the event of fire, extinguish with CO₂ or foam.

Flash points

Nitocote SN511: 39°C

Fosroc Solvent 102: 33°C

(Abel closed cup method IP33)

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Certificate number FM 610