

Nitocote® SN525

Monomeric silane water repellent penetrant

Uses

A deep 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.
- Resistant to alkaline environment.
- Protects hairline cracks upto 0.3mm.

Standards compliance

Nitocote SN525 complies to ZTV SIB90 Standards set by German ministry.

Also complies to EN1504 - 2.

Description

Nitocote SN525 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.

Properties

Specific gravity : 0.87

Purity : Minimum 95%

Refractive index : 1.4

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, shall be removed by 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 SN525, it is important that the correct rates of application and overcoating times are observed.

Nitocote SN525 should be applied evenly by saturation flooding using a wet spray without misting, working from the bottom up.

It must be applied by spraying at low pressure and suitable nozzle should be used. Brush should not be used for application and enough material should be sprayed on the surface during the application and wet layers should be observed on surfaces.

Cleaning

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

Estimating

Packaging

Nitocote SN525 : 25litre & 200 litre container

Nitoflor Sol : 5 litre packs

Coverage and yield

Nitocote SN525 : 175 ml/m²

Limitations

The application of Nitocote SN525 should not commence if temperatures are below 5°C and falling or if the concrete surface temperature is above 45°C.

Nitocote SN525 hydrolyses with atmospheric moisture. Material from opened containers should be used on the same day.

If rain is expected, application should be avoided. After rain complete drying of the substrate is required before application of Nitocote SN525.

Nitocote® SN525

Nitocote SN525 must not be used on non absorbing surfaces like glass, plastic and metal. Brush should not be used for application.

Water, solvents and thinner should not be added to the Nitocote SN525.

Storage

Keep containers tightly closed and store in a cool, well ventilated place. Protect from moisture.

Shelf life

12 months when stored in original unopened containers.

Precautions

Health & Safety instructions

Use personal protective equipments like goggles, gloves and mask. Use in the open air with adequate ventilation. Contact with skin and eyes shall be avoided.

For further information refer to Product Safety Data Sheet.

Fire

Do not expose to naked flames or other sources of ignition. Containers should be tightly sealed when not in use. In the event of fire, extinguish with CO2 or foam.

Flash point

Nitocote SN525	:	63°C
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Nitoflor Sol	:	33°C
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