



Nitocote SN502 WB

Water based, penetrating hydrophobic silane-siloxane treatment for concrete and masonry

Uses

To protect atmospherically exposed reinforced concrete structures from attack by chloride ions and water intrusion. The product is also suitable to protect other cementitious substrates and masonry. Nitocote SN502 WB is suitable for use on all types of structures, including those in coastal environments. It is equally suitable for new and existing structures.

Advantages

- Penetrates into substrates
- Non staining
- Reduces water and chloride intrusion
- Increases freeze thaw resistance
- Minimises efflorescence
- Allows water vapour to escape from the structure
- Chemically resistant to ice melting compounds, fuels, oils and atmospheric contaminants

Description

Nitocote SN502 WB is a single component penetrating silanesiloxane system which penetrates into porous substrates and then reacts to produce a bonded hydrophobic lining to the pores. Although allowing passage of water vapour from the substrate it significantly reduces the absorption of water and water borne salts.

Nitocote SN502 WB does not discolour most substrates and has excellent resistance to weathering.

Specification

Silane-siloxane penetrating treatment

The penetrating treatment shall be a silane-siloxane system with very low penetration of chloride ion and a reduction in water absorption of not less than 85% when tested to the ASTM C642.

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Properties

The values obtained are for Nitocote SN502 WB applied at the minimum recommended application rate.

Reduction in chloride ion penetration	
To NCHRP 244 Standard	%92
Australian C.T.I. method	%98
Reduction in water absorption	
To NCHRP 244 Standard	%85
Australian C.T.I. method	%94

Instructions for use

Preparation

All surfaces should be dry and free from contamination such as oil, grease, loose particles, decayed matter, moss, algal growth, laitance and all traces of mould release oils and curing compounds. This is best achieved by lightly sand-blasting the surface. Where moss, algae or similar growths have occurred, treatment with a proprietary biocide should be carried out after the sand-blasting process.

Application

In order to obtain the penetrating properties of Nitocote SN502 WB, it is important that the correct rates of application and overcoating times are observed.

Number of coats	2
Theoretical application rate per coat	0.2 kg / m ²
Overcoating time	2 hours at 20°C

Nitocote SN502 WB should be applied in two flood coats until the recommended total application rate of 0.4 kg per square metre has been achieved. This is best accomplished by using portable spray equipment of the knapsack-type. If in doubt about the condition of the substrate, the local Fosroc office should be consulted.

Nitocote SN502 WB should be allowed to dry for a minimum of 2 hours (at 20°C) before continuing.

Nitocote SN502 WB

Cleaning

Nitocote SN502 WB should be removed from tools and equipment using Fosroc Solvent 102 immediately after use.

Limitations

- Nitocote SN502 WB should not be contaminated with water. The application of Nitocote SN502 WB should not commence if the temperature of the substrate is below 2°C.
- Nitocote SN502 WB may darken some polymer modified substrates and white cement. A trial area is recommended.

Supply	
Nitocote SN502 WB	25 kg drum
Coverage	
Nitocote SN502 WB	5 m ² / kg

Note : For substrates with low permeability the coverage rate per coat will be reduced. Site trials are recommended to ascertain maximum coverage rate applicable to the substrate in question.

Storage

Shelf life

When stored in the original unopened container in cool, dry conditions away from sources of heat and naked flames, Nitocote SN502 WB will have a shelf life of 12 months.

If stored at high temperatures and/or high humidity conditions the shelf life will be reduced.

Precautions

Health and safety

For detailed information, please refer to the Product Safety Data Sheet.

Additional Information

Fosroc manufactures a wide range of complementary products which include :

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- Hand-placed repair mortars
- Spray grade repair mortars
- Fluid micro-concretes
- Chemically resistant epoxy mortars
- Anti-carbonation/anti-chloride protective coatings
- Chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office - as below.

* Denotes the trademark of Fosroc International Limited

† See separate data sheet



Important Note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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