

Economical, penetrating hydrophobic silane-siloxane, clear treatment for masonry and concrete

Uses

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

Advantages

- Reduces water and chloride intrusion
- Penetrates into porous substrates
- Non-staining
- Suitable for applications where windy conditions or high temperatures are likely
- Increases freeze thaw resistance
- Minimises efflorescence
- Chemically resistant to ice melting compounds, fuels, oils and atmospheric contaminants
- Allows water vapour to escape from the structure

Description

Nitocote SN502 is a single-component penetrating silane-siloxane system which penetrates into porous substrates and then reacts to produce a bonded hydrophobic lining to the pores. It significantly reduces the absorption of water and water borne salts, whilst allowing the passage of water vapour gas out from the substrate.

Nitocote SN502 does not discolour the substrate, however Nitocote SN502 may darken some polymer modified substrates and white cement. A trial area is recommended.

Technical support

Parchem offers a comprehensive range of high performance, high quality repair, maintenance and construction products. In addition, Parchem offers a technical support service to specifiers, end-users and contractors, as well as on-site technical assistance.

Design criteria

Nitocote SN502 should be applied in 2 coats. To achieve the correct penetration and protection, Nitocote SN502 must be applied on the substrate at 5m² / litre per coat.

Properties

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

Specification clause

Silane-siloxane penetrating treatment

The penetrating treatment shall be a silane-siloxane system with a reduction in chloride ion penetration not less than 92% and a reduction in water absorption of not less than 85%.

Application instructions

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 grit-blasting the surface. Where moss, algae or similar growths have occurred, treatment with a propriety biocide should be carried out after the grit-blasting process.

Application

In order to obtain the penetrating properties of Nitocote SN502, 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:	5m ² / litre 0.2 litres / m ²
Overcoating time:	2 hours @ 20°C

Nitocote SN502 should be applied in two flood coats until the recommended total application rate of 0.4 litres/m² 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, consult with your local Parchem sales office.

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

Cleaning

Nitocote SN502 should be removed from tools and equipment using Solvent 10 immediately after use.

Limitations

Nitocote SN502 should not be contaminated with water. The application of Nitocote SN502 should not commence if the temperature of the substrate is below 2°C.

Nitocote SN502 may darken some polymer modified substrates and white cement. A trial area is recommended.

Fosroc®

Nitocote SN502

Estimating

Supply

Nitocote SN502 20 litre:	FC855145-20L
Solvent 10:	4 and 20 litre drums

Coverage

Nitocote SN502:	5 m ² / litre / coat; 0.2 litres /m ² / coat
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Note: these coverage figures are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.

Storage

Shelf life

Nitocote SN502 has a shelf life of 12 months if kept in a dry store in the original, unopened containers. Refer to the Use by Date indicated on the packaging.

Storage conditions

Store in cool, dry conditions, away from sources of heat and naked flames, in the original unopened containers. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.