

# Expancote\* SN522



CONSTRUCTION CHEMISTRY

## Non-staining water repellent

### Uses

To provide a water repellent surface on exterior building surfaces such as brickwork, plasters, concrete and natural stone.

### 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
- Resistant to atmospheric contaminants

### Description

Expancote\* SN522 is a single component, penetrating silane-siloxane which penetrates into porous substrates and then reacts to produce a bonded water repellent lining. Although allowing water vapour to escape from the substrate, it significantly reduces the absorption of water and water-borne salts.

### Design criteria

Expancote\* SN522 should be applied in a number of liberal flood coats. To achieve the correct penetration and protection, Expancote\* SN522 must be applied on the substrate at the coverage rate recommended.

### Specification

The penetrating water repellent treatment shall be Expancote\* SN522, an oligomeric siloxane solution specifically designed to produce a water repellent surface to natural stones and neutral substrates. The initial surface water absorption of concrete treated with Expancote\* SN522 shall be 0.01 ml/m<sup>2</sup> or less after 10 minutes. Concrete treated with Expancote\* SN522 shall have 'low' chloride permeability when tested in accordance with AASHTO T277-83

### Properties

14 day old concrete with a water:cement ratio of 0.50 was treated with Expancote\* SN522 and the following values obtained:

#### Test method Result

**Rapid chloride permeability** : Low  
(AASHTO T277-83)

**Initial surface absorption** : < 0.01 ml/m<sup>2</sup>  
(BS1881 Part 5:1970) after 10 minutes

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

#### Application

In order to obtain the penetrating properties of Expancote\* SN522, it is important that the correct rate of application is achieved.

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**Number of coats** : 2 to 3 flood coats

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**Theoretical application rate** : 0.20 liters (total)/m<sup>2</sup>

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Expancote\* SN522 should be applied as a continuous flood coat using either a soft brush or low pressure spray equipment.

#### Cleaning

Expancote\* SN522 should be removed from tools and equipment using Expanchem Solvent 102\* immediately after use.

#### Limitations

Expancote\* SN522 should not be contaminated with water.

The application of Expancote\* SN522 should not commence, if the temperature of the substrate is below 2°C

#### Technical support

Expanchem Fospak 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.



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## Estimating

### Supply

**Expancote\* SN522** : 20 & 200 liter containers

**Expanchem Solvent 102** : 5 liter tins

### Coverage

**Expancote\* SN522** : 5 m<sup>2</sup> /liter (total)

Note: The coverage figures given are theoretical - due to wastage factors and the variety and nature of substrates, practical coverage figures may be reduced, this will vary with site and application conditions.

### Storage

When stored in cool, dry conditions, between 5°C and 20°C, away from sources of heat and naked flames, in the original, unopened containers, Expancote\* SN522 will have a shelf life of 12 months. If stored at high temperature and/or high humidity conditions the shelf life will be reduced.

### Precautions

#### Health and safety

Expancote\* SN522 and Expanchem Solvent 102 should not come into contact with skin and eyes or be swallowed. Avoid inhalation of vapour and spray. Use only in well ventilated areas. In case of insufficient ventilation wear suitable respiratory protection.

Wear suitable protective clothing, gloves and eye/face protection. Barrier creams provide additional skin protection.

Should accidental skin contact occur, remove immediately with a suitable skin cleanser followed by washing with soap and water.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed, seek medical attention immediately - do not induce vomiting.

For additional information consult the relevant Product Safety Data Sheet.

#### Fire

Expancote\* SN522 and Expanchem 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 CO<sub>2</sub> or foam.

#### Flash points

**Expancote\* SN522** : 37°C

**Expanchem Solvent 102** : 33°C

\*Denotes the trademark registered.

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