

Hydrophobic Impregnation for Concrete and Stone

DESCRIPTION

Nanoprotect® CS is a one component, ultra thin, transparent penetrating Nanotechnology impregnation. The product uses molecular bonding with a mineral substrate to form a hydrophobic surface, yet still permeable to water vapour.

Nanoprotect® CS molecules are very small and high penetrating. The relatively slow water evaporation rate allows it to enter even the smallest pores. Its water permeability allows the surface to 'breathe' naturally. Nanoprotect® CS greatly extends the life and colour retention of any water absorptive substrate.

Nanoprotect® CS protects and preserves the substrate without altering the natural surface texture, colour or slip resistance. Water runs off easily from the treated surface and dirt particles are washed off by rain or when rinsed with water, creating a easy to clean effect, with self cleaning properties.

Nanoprotect® CS can be used in bricklaying to stop rising damp.

RECOMMEND FOR

Nanoprotect® CS protects concrete, cement rendered concrete, sandstone, brickwork and natural, cast stones etc.

FEATURES & BENEFITS

- Economical
- One component, easy to apply
- Environmentally friendly
- Deeply penetrating
- Permeable to vapour
- Inhibits mould growth
- Inhibits ingress of chlorine
- Reduces unsightly staining
- Protects against rain penetration
- Reduces efflorescence
- Effective on old and new surfaces
- Helps preserve natural colour and texture
- No change in slip resistance
- Excellent abrasion resistance

SPECIFICATIONS

Supply Form	Liquid
Colour	Clear
Density	Approx. 1.0
Solvents	Water
Flashpoint	N/A
Storage Temperature	Not below 4°C / 39°F
Application Temperature	4°C-30°C / 39°F-86°F

SURFACE PREPARATION

Proper surface preparation insures maximum adhesion to the substrate molecules.

Surfaces should be dry and free from dirt, grit, dust, grease etc.

Application to a wet substrate will result in a higher consumption and uneven penetration.

Paints, form release agents, curing compounds, moss, laitance, algae etc must be removed.

Allow at least one month before applying to new concrete coated with film building curing agents.

MIXING & PRIMING

Not required.

METHOD OF APPLICATION

Do not dilute – apply directly from the container.

Apply with low pressure (approx 40-70kpa) spraying equipment or by paint roller.

Apply evenly with steady strokes over the entire surface.

Nanoprotect® CS draws into the surface pores immediately on first contact. After 2-5 minutes apply a second coat (wet on wet).

A bead formation usually forms on the surface between coats.

On very porous materials, it may be necessary to apply a third coat, again wet on wet.

When using on larger surfaces the treatment should be applied in sections.

Nanoprotect® CS is invisible once dry – take adequate precautions to ensure the entire surface is covered, particularly if application is interrupted.

Reapplication after the service life can be done by simply repeating the application process.

TOOLS

Use a low-pressure sprayer or atomizing sprayer.

CURING

Nanoprotect® CS is rainproof as soon as it dries up.

The water repellent properties will develop during the self-assembling process in 1-10 hours, depending on the temperature during the curing time.

Heat will accelerate the curing.

ESTIMATING DATA

Coverage depends on age, absorbency and porosity of the substrate.

On normal brickwork, coverage is approx. 10m² (~100 sq foot) per litre.

The quantity required for the second coat when required is approximately half the quantity required for the first coat.

On very porous substrates it may reduce to 15m² (~150 sq foot) per litre, per coat.

CLEANING

Tools should be cleaned with water immediately after use.

SHELF LIFE

Nanoprotect® CS can be stored in tightly sealed original containers for 12 months, if kept dry and at moderate temperatures.

It is important to reseal containers after use.

PACKAGING

Nanoprotect® CS is available in 1 litre, 4 litre jerry cans, 20 litre drums and 1000 litre pallet tanks.

PRECAUTIONS

READ ALL SAFETY DIRECTIONS AND WARNINGS ON PACKAGING BEFORE USE.

REFER TO MATERIAL SAFETY DATA SHEET FOR HANDLING PROCEDURES.

Nanoprotect® CS is not classified as dangerous goods, however adequate personal protection should be worn. This may include the wearing impervious gloves and goggles.

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