

Nusil

Concrete & Masonry Water Repellent

Description

A specifically developed solution of silicone complexes in organic solvents, designed to give maximum water repellent properties as well as provide protection from chemical and industrial pollution. Nusil is formulated to provide protection on a wide range of surfaces including masonry, concrete, brick, gypsum plaster, asbestos cement, natural stone and cast stone.

Nusil complies with BS 3826:1969, 'Silicone based water repellents to masonry, class A for clay brickwork and class B for natural stone', as well as conforming to EN 1504 Part 2.

Advantages

- Invisible; does not affect surface appearance
- Deep penetration results in many years protection
- Does not inhibit ability of water vapour to leave a structure
- Protects from the effects of de-icing salts & freeze/thaw cycle
- Stops alkali-silica reaction in concrete
- Does not affect existing anti-slip properties
- Easily applied by sprayer, brush or roller
- Preserves buildings condition due to self-cleaning properties

Technical Information

Appearance	Colourless liquid
Active ingredients	Silane and siloxane blend
Percentage active ingredient	5-10 %
Specific gravity	0.82 @ 23°C
Viscosity	<25 cps @ 23°C
Flash point	45°C (114°F)
Application temperature	5°C to 30°C
Coverage:	
Dense substrate	4-5 m ² per litre
Semi-porous substrate	2-3 m ² per litre
Drying time	<30 minutes

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EN 1504-2 Surface protection system for concrete Hydrophobic Impregnation	
Resistance to freeze/thaw	>20 cycles
Depth of penetration	Class 1
Drying rate coefficient	Class 1
Dangerous substances	Complies with 5.4

Water absorption on various substrates

Substrate	Untreated	Treated with Nusil
Red brick	12 %	0.1 %
Sand lime brick	12 %	2.5 %
Baltic limestone	10 %	0.3 %
Darley dale limestone	3.4 %	0.2 %
3:1 Sand/cement mortar	6.5 %	0.7 %
Concrete blocks	6.2 %	1.3 %



Surface Preparation

All surfaces should be clean, dry, sound and free of and chemical contaminants. Oil, grease, moss and lichen should be removed. Structural defects should be repaired.

New concrete or mortar should be allowed to cure for 28 days prior to treatment.

Glass and paintwork should be masked-off and protected as the cured resin is difficult to remove.

Application Instructions

Nusil is supplied ready for use and should be applied in a single application, flooding the material onto the surface so that a run down of 30cm is achieved. Apply by brush, roller or Nufins spray equipment should be used at low pressure. For use in confined spaces, ensure adequate ventilation.

Oil based or emulsion paints may be applied over Nusil after a period of 2 days. Where cement based paints are used it is recommended that Nusil is applied over them.

Cleaning

All equipment should be cleaned immediately after use with Nuwash cleaner.

Packaging

Nusil is available in 5 & 20 litre drums.

Storage

The shelf life is 12 months when stored unopened in dry, normal conditions and away from direct sunlight. Protect from frost.

Health & Safety

Product Safety Data Sheets (SDS) are available from Nufins. SDS sheets are provided to help customers satisfy their safe handling, use and disposal needs as well as assist with any conformance requirements made locally by health and safety regulations.

SDS are continually updated to provide the latest information to our customers. We therefore recommend contacting our head office to obtain the most recent and accurate SDS before handling and using any product.

Limitations

Do not apply at temperatures below 5oC.

Nusil is not designed to prevent leaks caused by hydrostatic pressure, such as underground masonry and basement walls.

Disclaimer

The information contained herein is to the best of our knowledge true and accurate and is given in good faith but without warranty. The user will be deemed to have satisfied themselves independently as to the suitability of our products for their own particular purpose. In no event shall Nufins be liable for consequential or incidental damages.

Users must always refer to the most recent issue of the Technical Datasheets, copies of which will be supplied on request.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors. Technical contacts are available to provide further information and arrange demonstrations.