

Nitocote® Wallguard

Self Priming , Elastomeric & Decorative acrylic waterproof coating

Uses

Nitocote® Wallguard is an acrylic elastomeric coating having strong inter-coat adhesion with the substrate and long term protection.

Typical applications include :

- Provides a high quality effective waterproofing cum decorative coating for exterior wall.
- Prevents dampness of external wall subjected to severe weather in coastal environment
- Ideally suitable for coating on all type of external masonry surfaces, concrete, cement sand renderings etc

Advantages

- High build film - Higher film thickness provides tough waterproof membrane ensuring no ingress of water withstanding wind driven rain
- Highly flexible - Required DFT of elastic film accommodates movement in the structure and covers hairline cracks
- Ready to use – Dilution is not required
- Anti dirt – low dirt pick up & can be cleaned easily
- Microbial Resistance - Resistance to Algae, Fungi and bacterial attack
- Breathability – Allow internal moisture to escape
- Ease of application – User friendly product, easily applicable by brush, roller or spray
- Colour Variants – Tintable, available in wide range of colour variants.

Description

Nitocote® Wallguard is water based polymer coating composed of high quality acrylic polymer, with weather resistant pigments, properly selected & graded fine fillers.

It is used as a waterproof & decorative coating for protection of exterior walls of the buildings from heavy wind driven rain.



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Properties

Nature	Single Component
Appearance	Emulsion paint available in white, midtone and dark bases.
Density (g/cc)	1.25 ± 0.03
Tensile strength (ASTM D412-02)	>2.0 N/mm ²
Adhesion strength to concrete ASTM D4541	≥1.5 N/mm ²
UV Resistance ASTM D4587	1000 hours
Coating thickness DFT in 2 coats	110 microns

Note : All the above parameters have been tested in laboratory conditions. However the actual results may vary depending on the application methodology, site condition, temperature and substrate conditions etc.

Specification Clause:

Waterproof coating for external masonry/rcc walls shall be Nitocote® Wallguard an acrylic water based elastomeric & decorative coating applied at 110 micron dry film thickness in two coats as per manufacturer specification. Coating shall be UV resistant, breathable & flexible having minimum 100% elongation when applied at 110 micron DFT.

Application instructions

Surface Preparation

All surface should be dry and free from contamination such as oil, grease, loose particles, decayed matter, moss, algae 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. New Concrete, plaster or masonry surface must be allowed to cure (28 days) before application. Cured plaster should be non powdery (hard) and sound to apply the coating.

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Note : Where application over existing sound coatings is required, trials should be conducted to ensure compatibility and retention of the bond between the underlying coating and the substrate. For further advice, consult Fosroc.

It is essential to produce an unbroken coating of Nitocote® Wallguard. To ensure this is achieved, surfaces containing blow holes or similar areas of pitting should first be filled using a suitable cementitious fairing coat like Renderoc FC and the Pinholes should be filled with Decofill acrylic sealant cum Putty (for further details, refer to Fosroc).

The Acrylic Putty should be allowed to become touch dry prior to sanding and application of Nitocote® Wallguard.

All the cracks shall be repaired with Renderoc Repair systems. In case of structural cracks please consult a structural engineer and incorporate appropriate Fosroc range of repair solutions before using the coatings.

Mixing

The contents of Nitocote® Wallguard shall be thoroughly stirred for at least 2 minutes using a slow speed (300 - 400 RPM) drill machine attached with a mixing paddle.

Application

Apply a self-priming coat of Nitocote® Wallguard (white base) with 50% dilution (with water) for new/fresh plaster wall surface in (SSD) surface saturated dry condition with the coverage at the rate 8-10 sq.m/Ltr/coat with paint brush/roller. Allow the self priming coat to dry for 4 -6 hours. The total dry film thickness of Nitocote® Wallguard should be 110 microns in 2 coats. Apply first coat of Nitocote® Wallguard with a nylon brush, or a felt roller, to the primed substrate. Allow first coat to dry for 5-6 hrs at 30°C and then apply the second coat. In order to obtain the waterproof properties of the Nitocote® Wallguard, it is important that the correct rates of application and over coating time are observed. Nitocote® Wallguard shall be applied at theoretical application rate of 3.9 to 4.1 sq.m / litre for 2 coats. Application should not commence if the temperature of the substrate is below 10°C.

Curing

This coating will become tack free in approximately 5 – 6 hours and be fully cured in 7 days.

Cleaning

Clean tools and equipment immediately after use with water. Wash hands and skin with soap, or an Industrial hand cleaner

Limitations

Minimum ambient surface and material temperature must be between 10 to 40°C. For applications outside this range, contact Fosroc for advise. Application of the product should be always on dry substrates.

Storage

Shelf life

Nitocote® Wallguard has a shelf life of 18 months when stored under normal warehouse conditions in unopened containers. Exposure to moisture greatly reduces the shelf life.

Estimating

Packaging

Nitocote® Wallguard White base : 20, 4 & 1 litres
Nitocote® Wallguard Dark base : 19, 3.8 & 0.95 litre
Nitocote® Wallguard Midtone base : 19, 3.8 & 0.95 litre
Nitocote® Wallguard yellow base : 19, 3.8 & 0.95 litre

Coverage

Self priming coat of Nitocote® Wallguard at 50 % dilution with water gives a coverage of 8 to 10 sqm/ltr/coat.

The theoretical coverage for Nitocote® Wallguard is 3.9 to 4.1 sq.mt / litre in two coats. However, practical coverage may vary depending on the porosity of substrate.

Note : Diluting 1 litre of Nitocote® Wallguard with 50% water for self priming coat gives an overall yield of 1.5 litres and an overall coverage of 11 to 12 sqm/1.5 litre/coat

Precautions

Health & Safety

Nitocote® Wallguard should not come in contact with the skin and eyes, or be swallowed. Adequate ventilation should be ensured and inhalation of vapours should be avoided. Some people are sensitive to polymers, hence suitable protective clothing, gloves and eye protection should be worn. If working in confined area, suitable

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Important note

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