

Nitocote® Wallguard Premium

High performance, Decorative acrylic and waterproof coating

Uses

Nitocote® Wallguard Premium is a high performance, Decorative acrylic and waterproof coating with strong inter-coat adhesion with the substrate and long term protection.

Typical applications include :

- Provides a high quality effective waterproof cum decorative coating for exterior wall
- Prevents dampness of external wall subjected to severe weather in coastal environment
- Ideally suitable or 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 - Accommodates movement in the structure covers hairline cracks (up to 0.5 mm)
- Ready to use – Dilution is not required
- UV stability – Resistance to UV rays
- Provides resistance to chloride attack
- 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 Premium 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, mid-tone and dark bases.
Density (g/cc)	1.30 ± 0.03
Breathability (ASTM E96)	22 gm/m ² /day
Rapid chloride penetration test (ASTM C1202-97)	Very low
Accelerated weathering (1500 hrs. UV exposure) ASTM D 4587	No Defects
Tensile strength @ 250 micron ASTM D412-02	≥ 2.5 N/mm ²
Crack bridging ability (ASTM C836)	Passes > 0.5mm width
Adhesion strength to concrete ASTM D4541	≥ 2.0N/mm ²
Coating thickness DFT in two coats	110 microns
Solar Reflectance Index (SRI)	95
Solar Direct Reflectance	>75%
Emissivity	>92%
Tested as per ASTM E 1980-19 (The above stated properties is for white colour shade)	
Carbon dioxide diffusion resistance equivalent thickness of air EN 1062-6-2002) >35 meters @ 110 microns DFT >50 meters @ 150 microns DFT	

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.

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Specification Clause:

Waterproof coating for external masonry/RCC walls shall be Nitocote® Wallguard Premium 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.

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 Premium. 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 Premium.

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.

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.

Priming

It is recommended that new cementitious and concrete substrates has to be primed with water based acrylic primer Nitoprime AW. The application of primer enhances bonding and coverage of Nitocote® Wallguard Premium.

Dilute Nitoprime AW with water in the ratio of 2:1 by volume (2 parts of Nitoprime AW with 1 part water) and stir well until a uniform consistency is achieved. Apply a single coat of diluted Nitoprime AW over the clean substrate at a coverage of 8 to 10 sqm/litre (after dilution). Allow the primer to dry for 2 to 3 hours @ 27°C before commencing application of Nitocote® Wallguard Premium.

Mixing

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

Application

The total dry film thickness of Nitocote® Wallguard Premium should be 110microns in 2 coats. Apply first coat of Nitocote® Wallguard Premium 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 Premium, it is important that the correct rates of application and over coating time are observed. Nitocote® Wallguard Premium shall be applied at theoretical application rate 4 to 4.4 sqm / 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.

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Storage

Shelf life

Nitocote® Wallguard Premium 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

S.no	Product Description	Pack size (litres)
1	Nitoprime AW	20, 4 & 1
2	Nitocote® Wallguard Premium White base	20, 4 & 1
3	Nitocote® Wallguard Premium Dark base	19, 3.8 & 0.95
4	Nitocote® Wallguard Premium Midtone base	19, 3.8 & 0.95
5	Nitocote® Wallguard Premium Yellow base	19, 3.8 & 0.95

Coverage

The theoretical coverage for Nitocote® Wallguard Premium is 4.0 to 4.4 sq.mt / litre in two coats. However, practical coverage may vary depending on the porosity and surface roughness of substrate.

Nitoprime AW : 8 - 10 sq.mt/litre (after dilution)

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 respiratory protective equipment must be used. In case of contact with skin, should be rinsed immediately with plenty of clean water and medical advice sought. If swallowed, medical attention sought immediately. Should not induce vomiting.



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it.

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