Nitocote Wall Guard

Elastomeric & Decorative acrylic waterproof- ing coating for exterior walls

Uses

Nitocote Wall Guard provides a cementitious, elastomeric coating with inherent crack-bridging ability. 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 with--standing wind driven rain.
- Highly flexible - Accommodates movement in the structure covers hairline cracks(upto 0.5 mm).
- Elongation - Easily accomodates movement of thermal expansion & contraction. 100% elongation at 110-120 micron DFT crack bridging in excess of 0.5 mm.
- Ready to use – Dilution is not required.
- UV stability – Resistance to UV rays.
- Anti dirt – low dirt pick up & can be cleaned easily.
- Breathability – Allow internal moisture to escape.
- Ease of application - User friendly product, easily applicable by brush, roller or spray

Description

Nitocote Wall Guard 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 waterproofing & decorative coating for protection of exterior walls of the buildings from heavy wind driven rain.

Nature	: Single component
Appearance	: Emulsion paint available in white & dark bases
Specific Gravity	: 1.29
Elongation(110 micron DFT) ASTM D412-02	: >100%
Breathability ASTM E96	: 22 gm/m2/day
Rapid chloride penetration test ASTM C1202-97	: very low
Accelerated weathering (1000hrs UV exposure), ASTM D 4587	: no defects
Tensile strength @250micron ASTM D412-02	: >2.0N/mm^2
Crack bridging ability ASTM C836	: Passes > 0.5mm width
Adhesion strength	: 1.3N/mm2
Coating thickness DFT in two coats	: 110 microns

Specification clause

Waterproof coating for external masonry/rcc walls shall be Nitocote Wall Guard an acrylic water based elastomeric & decorative coating applied at 110 micron DFT 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 com- pounds. Where moss, algae or similar growths have occurred, treatment with a proprietary biocide should be carried out.

Note : It is not necessary to remove Fosroc's Nitobond AR curing membrane prior to the application of Nitocote Wall Guard provided the adhesion to the substrate is excellent. Where application over existing sound coatings is required, trials should be conducted to ensure compatibility and re- tention 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 Wall Guard. 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 or Acrylic fairing coat like Nitocote Putty (for further details, refer to Fosroc). The cementitious fairing coat should be allowed to cure for about 48 hours depending on ambient conditions prior to application of Nitocote Wall Guard.

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 Wall Guard.

Dilute Nitoprime AW with water in the ratio of 2:1 and stir well untill a uniform consistency is achieved. Apply a single coat of diluted Nitoprime AW over the clean substrate at a coverage of 8 to 10 sqmeter / litre (after dilution). Allow the primer to dry for 2 to 3 hours @ 27 deg. C before commencing application of Nitocoat Wall Guard.

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Mixing

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

Application

Apply Nitocote Wall Guard with a nylon brush, or a felt roller, to the prepared substrate. Allow Nitocote Wall Guard first coat to dry for 5-6 hours at 300C and then apply the second coat. In order to obtain the waterproof properties of the Nitocote Wall Guard, it is important that the correct rates of application and over coating time are observed. Nitocote Wall Guard shall be applied at theoretical application rate 3 to 3.5 m / litres 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 Wall Guard has a shelf life of 18 months when stored under normal warehouse conditions in unopened containers. Exposure to moisture greatly reduces the shelf life. Nitoprime AW has a shelf life of 18 months.

Estimating

Packaging

Nitocote Wall Guard White base : 20, 4 &1 litres

Nitocote Wall Guard Dark base : 19, 3.8 & 0.95 litres

Nitocote Wall Guard Midtone base : 19, 3.8 & 0.95 litres

Nitoprime AW : 1, 4 & 20 litre

Coverage

The theoretical coverage is 3 to 3.5 sqmt / litres in two coats.

However, practical coverage may vary depending on the porosity of substrate.

Nitoprime AW : 8 - 10 m^2/litre (after dilution)

Precautions

Health & Safety

Nitocote Wall Guard 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 areas, 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 vomitting.

BERGER
Trusted Worldwide

Berger Fosroc Limited
Corporate Address:
'Berger House', House # 08, Road # 02, Sector # 03, Uttara Model Town, Dhaka 1230, Bangladesh.
telephone(Hunting) : +880248953665, **fax :** +880248951350,
e-mail : enquiry.bangladesh@bergerfosroc.com, **website** : www.bergerfosroc.com

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