



constructive solutions

Fosroc® Nitoprime UR T

Polyurethane based, one component primer

Uses

For concrete surfaces prior to the application of any of the Nitoproof Polyurethane membranes and Fosroc Polyurea's,

Advantages

- Can be applied on various substrates like concrete, woods, cement boards and metals
- Easy application
- Perfect adherence to the substrates even on porous ones
- Fast setting and gives a smooth finish after the penetrating on the surface

Description

Nitoprime UR T is a polyurethane based, one component primer with a good penetrating properties for various substrates.

Technical Support

Fosroc provides a countrywide technical advisory service supported by a team of specialists in the field.

Properties

Potlife @ 23°C : 30 min

Touch dry time @23°C : 4 hour

Fully cured : 4 days

Color : Transparent

Fully cured primer properties (28 days)

Density (ASTM D 1475/EN ISO 2811-1) : 1,01 g/cm³ ±0.03 @20°C

Viscosity (ASTM D 2196/EN ISO 3219) : 10-50 cp @25°C

Hardness Shore A (ASTM D2240) : 95

Adherence on Concrete (23°C)(ASTM D 903) : ≥ 2,2 N/mm²

Application Instructions

Surface Preparation

Thorough surface preparation is vital. For best results Fosroc recommends mechanical preparation techniques. (For example, mechanical scarifying, grit-blasting, sand blasting).

For flooring and tanking works, care must be taken to ensure that the substrate does not suffer from rising dampness. If such conditions exist, consult Fosroc.

New concrete floors

Should be at least 28 days old or have a moisture content of less than 5% before proceeding with PU application. Laitance and deposits on new concrete floors are best removed by light grit blasting, mechanical scabbling or grinding.

On smaller areas thorough etching using Reebaklens may be considered. After etching the floor, it should be thoroughly washed with clean water and then allowed to dry.

Old concrete floors

Again, mechanical cleaning methods are strongly recommended on old concrete floors, particularly where heavy contamination by oil and grease has occurred or existing coatings are present. These may well have been absorbed several millimeters deep into the concrete. To ensure good adhesion all contamination should be removed and the surface

Fosroc İdea Yapı Kimyasalları
San. ve Tic. A.Ş.

Aydınevler Mah. Sanayi Cad.
No: 13 D: 7-8, 34854,
Maltepe / İstanbul – TÜRKİYE
T: +90 216 463 69 63
F: +90 216 463 67 76
E: enquiryturkey@fosroc.com

www.fosroc.com

Dilovası Fabrika:
İstanbul Mermerçiler Küçük San. Sit.
18. Cad. No:41, 41455,
Dilovası / Kocaeli – TÜRKİYE
T: +90 262 728 15 05
F: +90 262 728 15 06

Tarsus Fabrika:
Tarsus Organize Sanayi Bölgesi
7. Cad. No: 2 187 Ada 6. Parsel,
33040, Akdeniz, Tarsus – Mersin /
TÜRKİYE
T: +90 324 676 43 08
F: +90 324 676 43 09



thoroughly cleaned of all dust and loose debris. A thorough detergent wash is also recommended followed by thorough cleaning with clean water and mopping it off to a dry state.

Mixing

Use a slowspeed drill (400 - 500 rpm) fitted with a suitable mixing paddle. mix thoroughly for 3 mins. until homogeneous,

Application

Once mixed the primer should be applied immediately in a thin continuous film to the clean prepared surface. Work the primer into the surface using a stiff brush or roller. Excess application and puddling should be avoided.

On porous surfaces Nitoprime UR T will be absorbed very quickly leaving characteristic light coloured dry patches. it is recommended that a second priming coat be applied to these dry areas. This not only helps to ensure good adhesion but also prevents air release from the porous substrate which may cause bubbles in the final PU membranes or topping later

Limitations

Application Temperature

Recommended application range is 5°C - 35°C. Fosroc shall be consulted where application or service is outside the range of 5°C to 35°C

Packaging

Nitoprime UR T	20 kg of tins
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Coverage

Nitoprime UR T	0,25 kg/m2
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Note: The coverage ratios are average, the actual consumptions depends on porosity of substrates and the site conditions.

Storage

Nitoprime UR T has a shelf life of 12 months when stored in unopened containers under normal warehouse conditions.

Precautions

Health & Safety instructions

Nitoprime UR T should not come into contact with skin and eyes or be swallowed. Apply in well-ventilated, no smoking areas, away from naked flames. In closed areas use ventilators and carbon active masks. The MSDS (Material Safety Data Sheet) is available on request.

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