

Nitoproof 625

Liquid applied single component polyurethane based elastomeric waterproofing membrane

Uses

The high elasticity, excellent bond and low water permeability of Nitoproof 625 make it ideal for a wide range of water/ vapour proofing applications such as foundations, basements, tunnels, ground floors, suspended floors, car decks, roof terraces, balconies, patios, bridges, precincts, inspection pits, water retaining structures (not potable water), sewage works, and inverted roofs. Also UV resistant properties of Nitoproof 625 makes it possible to use on exposed roof applications with no and/or light traffic loads.

Advantages

- One component; ready to apply direct from the can
- Liquid application (brush, roller, airless spray) allows jointless application and easy detail solutions.
- UV stable, suitable for exposed applications
- Highly elastic, cures to give a permanently flexible resilient barrier over a wide range of temperatures
- Rapid installation; significantly reduces time spent on preparatory works and detailing
- Excellent adhesion, can be applied to a wide range of substrates. Continuous adhesion prevents lateral migration of water
- Mechanical damage to the membrane can be easily repaired by spot application
- Thermally stable - irreversible chemical cure eliminates melting and flow at high temperature (service temperature between -40°C - +90°C)

Description

Single component, cold applied, UV resistant, low viscosity grade, polyurethane based elastomeric waterproofing membrane.

Properties

Tack free time	4 hours @ 25°C
Time to full cure	24 hours @ 1,5 mm (25°C)
Typical cured membrane properties @ 28 gün	
Elongation (ASTM D412)	> %600
Tensile Strength (ASTM D412-C)	> 8 N/mm ²
Pull off	Concrete failure
Scratch Resistance (ISO 1518)	No weight loss
Abrasion Resistance	120 mg @ 1200 cycle
Shore A Hardness (ASTM D2240)	60
Service Temperature (continuous ambient temperature)	-40°C to +90°C
Water vapour transmission (ASTM E96)	0,8 g/h/m ²

Chemical Resistance

Nitoproof 625 is unaffected by a wide range of mild alkalis and salt solutions. Pure Polyurethane composition allows to use under direct contact with water.

Instructions for use

Preparation

All surfaces to be waterproofed should be sound, clean and dry or slightly moist. Never apply on damp surfaces.

All irregularities has to be repaired and all sharp corners has to be curved by proper repair mortars.

All weak particles has to be removed from the concrete surfaces by grinding or high pressure water jetting. All the dust has to be cleaned.

Priming

Priming has to be done by PU based primer Nitoprime UR T if the surface is dry, or use damp tolerant PU based primer Nitoprime UR-DT over 5% surface humidity. After 4 to 6 hours both primers will be ready for Nitoproof 625 applications depending on the temperature conditions. If application interval passes 48 hours all surfaces has to be re-primed with Nitoprime UR T.

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Mixing

Single component material has to be mixed approximately 2 min. with a 400/600 rpm mixer until a homogeneous mix.

All the material has to be used within 60 to 90 min.

Application

Apply Nitoproof 625, with brush, roller or spray in two coats, 650 microns per coat. Recoating interval between coats is 12 to 24 hours.

In winter conditions, in order to minimise the recoating interval of the material up to 6 hours depending on the temperature and the relative humidity conditions add Nitoproof PU ACC catalyst 1% by weight.

Details under high loads such as pipe corners, cavities, sharp corners, increase the application thickness of the material by applying 3 or more coats.

Application Temperatures

Apply Nitoproof 625 between +5°C to +30 °C and standard relative humidity conditions.

Protection of waterproofing membrane

Nitoproof 625 is UV resistant but has to be protected from physical and mechanical conditions such as by protection screed or geotextile and gravel filling depending on the project details.

Horizontal applications can be protected by Proofex Protection Board.

Apply any kind of protection over fully cured Nitoproof 625. At +25°C' de minimum 24 hours.

Supply	
Nitoproof 625	: 25 kg drums
Nitoprime UR T	: 20 kg drums
Nitoprime UR DT	: 18 kg (A+B) drums
Nitoproof PU ACC	: 1 kg can

Coverage

Nitoproof 625	: 1,5 kg/m ²
Nitoprime UR T	: 0,25 kg/m ²
Nitoprime UR DT	: 0,35 kg/m ²
Nitoproof PU ACC	: 1 % by weight

Note: all above figures are approximate and can be differentiated depending on the surface porosity and absorptivity

Cleaning

Immediately following the application of Nitoproof 625, clean all tools and equipment with clean water. Cured material can only be removed mechanically.

Storage

Material will have a minimum shelf life of 12 months if stored in normal warehouse conditions.

Kept material in a dry store in the original, unopened packs. Under high temperature and humid conditions shelf life can decrease to 6 months.

Precautions

Health and safety

Nitoproof 625, Nitoprime UR T, Nitoprime UR DT and Nitoproof PU ACC should not be swallowed or allowed to come into contact with skin and eyes.

Some people are sensitive to resins and solvents. Wear suitable protective gloves and goggles. Adequate ventilation should be provided.

In case of contact with the skin, wash immediately with soap and water.

In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

For further information consult the Safety Data Sheet available for this product.

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† See separate data sheet



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 Service. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

FOSROC İDEA YAPI KİMYASALLARI

Aydınevler Mah. Sanayi Cad.
Demirtaş Plaza No:13 D:7-8
Maltepe İstanbul / TÜRKİYE

Telefon :
+90 216 463 69 63

Faks :
+90 216 463 67 76

email:
EnquiryTurkey@Fosroc.com