

Neoproof® PU W

Water-based aliphatic polyurethane, elastomeric waterproofing coating for roofs

Description of the product

Cold, fluid-applied, water-based aliphatic polyurethane, waterproofing elastomeric coating for roofs when mechanical durability and outstanding waterproofing properties are required. It forms a non-penetrating against moisture film with resistance to UV and mechanical stress.

Fields of application

- Roofs made of concrete, cement boards, mosaic, cement slurries
- Rooftops with resistance to stagnant water
- Metallic surfaces after the application of the proper primer (Vinyfix® Primer or Neotex® Metal Primer)
- New or old acrylic or polyurethane waterproofing layers

(Upon some surfaces above, it is necessary to prime them with the appropriate each time primer, before Neoproof® PU W application)

Properties-Advantages

- Ideal solution for waterproofing walkable roofs
- High mechanical strength
- Applicability and on cloudy days as the final polymerization of the material is done by evaporation, and therefore under shading
- No appearance of holes in the surface during the curing of material
- Protection of polyurethane foam insulation
- Certified with CE
- Eco-friendly (Water-based)
- Easy to apply
- Resistant to temperatures from -15°C to +80°C

Technical characteristics

Appearance	Viscous liquid
Density (EN ISO 2811-1:2011)	1,34 - 1,36 kg/l
Consumption	1-1,2 kg/m ² for two coats (cementitious surface)
Drying time (25°C)	2 – 3 hours initially
PH (ISO 1148)	8 - 9
Service temperature	From -15°C to +80°C
Dry to recoat (25°C)	24 hours (low temperatures and high humidity prolong drying)



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Adhesion strength (EN 1542:2001)	2,54 N/mm ²
Hardness shore A (ASTM D2240)	68
Absorption Coefficient (EN 1062-3:2008)	0,00 kg/m ² min ^{0,5}
Permeability CO ₂ (EN 1062-6:2002 Method A)	2,9 g/(m ² d)
Factor resistance μ (EN 1062-6:2002 Method A)	1994
Factor Sd (EN 1062-6:2002 Method A)	100,15m
Vapor Permeability Λ (ISO 7783-1:1999)	36,5 g/m ² d
Resistance coefficient in diffusion μ (ISO 7783-1:1999)	1694
Factor Sd (ISO 7783-1:1999)	0,6m
Solids by weight (ASTM D5201)	67%
Maximum Load (ASTM D 412-06a)	34,95 \pm 2,15N
Tensile Stress at Maximum Load (ASTM D 412-06a)	2,28 \pm 0,16MPa
Tensile Strain at Maximum Load (ASTM D 412-06a)	475,15 \pm 33,04%
Tensile Strain at Break (ASTM D 412-06a)	486,57 \pm 33,30%
Young's Modulus (ASTM D 412-06a)	1,83 \pm 0,10MPa
Total Reflectance (SR%)	84 (ASTM E 903-96)
Solar Reflectance Index (SRI)	106 (ASTM G159-98)
Total Emittance	0,89 (ASTM E408-71)

Instruction for use

Surface preparation: The substrate should be clean, dry and free from dust, oil, grease, or any poorly adhering material. It is advisable to prime the surface with Revinex® diluted with water in ratio **Revinex®:water-1:4**, in order to seal any pores, fix the surface, and thus obtain stronger adhesion and higher coverage or **Silatex® Primer** diluted 30% with solvent **Neotex 1111**.

Application: Stir the product thoroughly in its container. After priming, apply at least two layers of **Neoproof® PU W** using a brush or a roller, each time working the material in a vertical or different direction to that of the previous coat. Dilute with 5% water for the first coat. Apply the second coat after 24 hours, without thinning. Follow the above directions to the third layer.

Notes

- **Neoproof® PU W** should not be applied under wet conditions, or if

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wet conditions are expected to prevail during the curing period of the product.

- Application conditions: Moisture of the surface: < 4%, Relative atmosphere moisture: <80%. The application should take place under temperature between +10°C and +40°C.
- For demanding applications or when covering cracks bigger than 1,5 mm, **Neoproof® PU W** may be reinforced with specially designed non-woven polyester tissue **Neotextile®**. In such cases, at least three coats of the product are required.
- Coating thickness should not be excessive in order to avoid long drying times.
- Total hardening of the film occurs 7 days after the application

Special Edition

Neoproof® PU W - 40

Neoproof® PU W - 40

Special edition with large service temperature (from -40°C to +80°C).

Consumption: 1,3-1,5 kg/m² for two coats (cementitious surface)

Packing

Plastic container 13kg & 4kg

Cleaning of tools

Use plenty of water immediately after application

Stain removal

Use water when the stain is still fresh and damp. In case of hardened stains, use mechanical means or a paint remover.

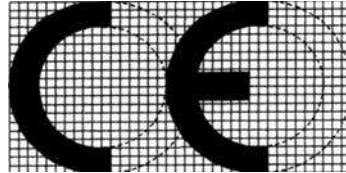
Storage stability

The product is stable for 2 years when kept unopened in its original container, protected from frost and direct sunlight.

The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX® SA. It is offered as a service to designers and contractors in order to help them find potential solutions. However, as a supplier, NEOTEX® SA does not control the actual use of the product and therefore cannot be held responsible for the results of its use. As a result of continual technical evolution, it is up to our clients to check with our technical department that this present data sheet has not been modified by a more recent edition.

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1922-CPR-0386

DoP No. Neoproof PU W /4950-07

EN 1504-2

Neoproof PU W

Surface protection system for concrete
Coating

Water vapour permeability	:	Class I
Capillary absorption and permeability to water	:	$W < 0,1 \text{ kg/m}^2 \text{ h}^{0,5}$
Adhesion strength	:	$\geq 0,8 \text{ N/mm}^2$
Permeability to CO ₂	:	$s_D > 50 \text{ m}$
Reaction to fire	:	Euroclass F
Dangerous substances	:	comply with 5.3