

Neoproof® PU W

Water-based polyurethane, waterproofing coating for roofs

Description of the product

Water-based polyurethane, waterproofing 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 Silatex 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
Elongation at break (ASTM D412)	480 %
Dry to recoat (25°C)	24 hours (low temperatures and high humidity prolong drying)

Adhesion strength (EN 1542:2001) 2,54 N/mm²

Hardness shore A (ASTM D2240) 68

ATHENS: V. MOIRA, INDUSTRIAL AREA MANDRA, 19600, ATHENS, GREECE, TEL.: +30 210 5557579, FAX: +30 210 5558482

THESSALONIKI: 10th km N.R THESSALONIKIS-POLIGIROU, 57001, THERMI THESSALONIKI, GREECE, TEL.: +30 2310 467275, FAX: 2310 463442

Neoproof[®] PU W

Service temperature From -15°C to +80°C

Absorption Coefficient (EN 1062-3:2008) 0,00 kg/m² min^{0.5}

Permeability CO₂ (EN 1062-6:2002 Method A) 1,7 g/(m² d)

Factor resistance μ (EN 1062-6:2002 Method A) 14536

Factor Sd (EN 1062-6:2002 Method A) 154,08m

Vapor Permeability Λ (ISO 7783-1:1999) 0,00307 g/cm² d⁻¹

Resistance coefficient in diffusion μ (ISO 7783-1:1999) 451,4

Factor Sd (ISO 7783-1:1999) 4,78

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

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

Neoproof® PU W

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 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

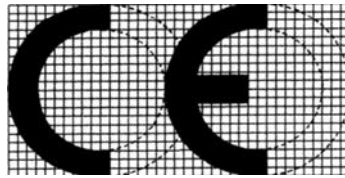
Stain removal

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.

Neoproof® PU W



1922

NEOTEX S.A.
V. Moira str., P.O. Box 2315
GR 19600 Industrial Area Mandra, Athens, Greece

14

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