

Neoproof[®] Polyurea R

Description of the product

Neoproof[®] Polyurea R is a highly durable, 2 component **brushable** polyurea, waterproofing coating for roofs, when mechanical durability and outstanding waterproofing properties are required. Does not require special application equipment. It forms a blister-free non-penetrating against moisture film providing zero water absorption with resistance to UV and mechanical stress.

Applications

- Roofs made of concrete, cement boards, mosaic, cement slurries
- Rooftops with resistance to stagnant water
- Metallic surfaces after the application of the proper primer (use **Neopox[®] Special Primer 1225** in the cases where anticorrosive protection is needed)
- New or old polyurethane waterproofing layers
- Waterproofing under tiles
- Protection of polyurethane foam insulation

Properties/Advantages

- Prevents moisture penetration, providing complete sealing
- Offers increased resistance to bending and stretching
- Very high mechanical strength
- No need of special application equipment
- UV stable
- Excellent bonding to all building substrates such as concrete, plaster, masonry, metal, wood
- Blister free coating. No appearance of holes in the surface during the curing of material
- Dries and cures quickly
- Long pot life
- Crack bridging properties
- Easy to apply
- Long-lasting waterproofing protection
- Ideal solution for waterproofing walkable roofs
- Resistant to temperatures from -35°C to +80°C

Technical Characteristics

Solids by weight (ASTM D5201) >84%

Neoproof[®] Polyurea R

Mixing ratios (weight prop.)	13A:6B
Service temperature	-35°C to +80°C
Hardness Shore A (EN ISO 868:2003/ASTM 2240)	73
Hardness Shore D (EN ISO 868:2003/ASTM 2240)	22
Consumption	1-1.2 kg/m ² (for 2 layers, on cementitious substrate)
Absorption Coefficient (EN 1062-3:2008)	0.00 kg/m ² min ^{0.5}
Substrate humidity	<4%
Application temperature	+5°C to +35°C
Elongation (ASTM D412)	400 %
Tensile strength at break (ASTM D412)	8.6 N/mm ²
Adhesion to concrete (ASTM D4541)	> 3N/mm ²

Pot life

Temperature	Time
5 °C	100 minutes
23 °C	80 minutes
35 °C	45 minutes

Tack free

Temperature	Time
5 °C	8 hours
23 °C	3 hours
35 °C	2 hours

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Recoat / Walkability

Temperature	Time
5 °C	24 hours
23 °C	18 hours
35 °C	10 hours

Instructions for use

Surface preparation: The surfaces should be smooth and continuous (i.e. without holes, cracks, bays, etc.). In the opposite case, they should be treated accordingly (e.g. with puttying). Moreover, they should be clean, dry and free from dust, oils, greases and loose material. Prior to the application, for the filling of the pores, the enhancement of the adhesion and the higher coverage of the material, it is suggested to apply **Acqua[®] Primer NP**. The substrate temperature must be higher than +12°C.

Application: Mix the two parts adding Part B to Part A under stirring (400rpm) for 2-3 minutes. **Neoproof[®] Polyurea R** is applied after good stirring, with brush, roller or airless spray, 24 hours after the priming with **Acqua[®] Primer NP**. **Neoproof[®] Polyurea R** is applied in two layers without dilution.

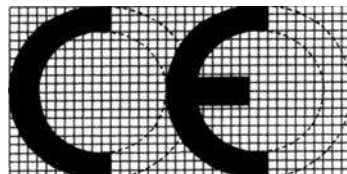
Special Notes

- **Neoproof[®] Polyurea R** should not be applied under wet conditions, or if wet conditions are expected to prevail during the curing period of the product.
- Application conditions: Surface moisture: < 4%, Relative atmosphere moisture: <85%. The application should take place under temperature between +5°C and +35°C.
- For demanding applications or when covering cracks bigger than 1,5 mm, **Neoproof[®] Polyurea R** may be reinforced with specially designed non-woven polyester tissue **Neotextile[®] 100gr**. In such cases, at least three coats of the product are required.
- In cases of inverted roof insulation or insufficient thermal insulation is recommended to use appropriate roof ventilation.

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Colours	White(RAL9003), grey(RAL7035), terracotta(RAL3009)
Packaging	Sets of 19 kg in tin cans (components A&B have fixed weight proportion)
Tools cleaning	Use solvent Neotex[®] 1021 immediately after application.
Stain removal	Use solvent Neotex[®] 1021 when the stain is still fresh and damp. In case of hardened stains, use mechanical means.
Storage stability	Part A: 2 years (5-45°C) in sealed tin cans. Part B: 1 year (5-35°C) in sealed tin cans.

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EN 1504-2

Neoproof Polyurea R

Surface protection system for concrete
Coating

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