

#### CONSTRUCTION CHEMICALS



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# Neoproof® Polyurea F

# Description of the product

**Neoproof**<sup>®</sup> **Polyurea F** is a highly durable, 2 component brushable polyurea, waterproofing coating for roofs, when mechanical durability and outstanding waterproofing properties are required. Concerning the reaction to fire, it is classified as Class E according to EN 13501-1, test method EN ISO 11925-2:2010. It 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. It can be used for the protection of metal structures, prestressed concrete, brickwork, wooden surfaces, etc. When the temperature exceeds 200 ° C (390 ° F), the specific components of the product react to form a multicellular non-flammable foam, which protects the substrate against a small flame attack for a short period of time, allowing fire extinguishers to intervene.

## **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
- Protection of polyurethane foam insulation

## **Properties/Advantages**

- Capable of resisting, for a short period, a flame attack without substantial flame spread
- Prevents moisture penetration, providing complete sealing
- Offers increased resistance to bending and stretching
- Very high mechanical strength
- No need of special application equipment
- LIV 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

国 N E O I E O I E



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Technical Characteristics	
Reaction to fire (EN 13501-1)	Class E (Fs<150mm in 20s)
Solids by weight (ASTM D5201)	>84%
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 <sup>2</sup> (for 2 layers, on cementitious substrate)
Water vapour permeability	Class II
Capillary absorption	W < 0,1 kg/m2 h0,5
and permeability to water	
Permeability to CO2	s <sub>D</sub> >50 m
Absorption Coefficient (EN 1062-3:2008)	0.00 kg/m² min <sup>0,5</sup>
Substrate humidity	<4%
Application temperature	+5°C to +35°C
Elongation (ASTM D412)	400 %
Tensile strength at break (ASTM D412)	8.6 N/mm <sup>2</sup>
Adhesion to concrete	> 3N/mm <sup>2</sup>

## Pot life

(ASTM D4541)



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# Neoproof® Polyurea F

Temperature	Time
5 °C	100 minutes
23 °C	80 minutes
35 °C	45 minutes
Tack free	
Temperature	Time
5 °C	8 hours
5 °C 23 °C	8 hours 3 hours

## 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,** diluted with water (15-20% by weight). 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 F** is applied after good stirring, with brush, roller or airless spray, 24 hours after the priming with **Acqua® Primer NP. Neoproof® Polyurea F** is applied in two layers without dilution.

## **Special Notes**

- ▶ **Neoproof**® **Polyurea F** 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



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place under temperature between +5°C and +35°C.

- For demanding applications or when covering cracks bigger than 1,5 mm, Neoproof® Polyurea F 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.

Colours	White
Packaging	Sets of 19 kg in tin cans (components A&B have fixed weight proportion)
Tools cleaning	Use solvent <b>Neotex® 1021</b> immediately after application.
Stain removal	Use solvent <b>Neotex® 1021</b> 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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