

Neoproof[®] Polyurea C1

Description of the product

Neoproof[®] Polyurea C1 is a two component, high build **brushable** waterproofing polyurea 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, applied in a **single coat**.

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

- 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 various building substrates such as concrete, plaster, masonry, metal, wood
- Blister-free coating. No appearance of holes on 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 the waterproofing of walkable roofs
- Resistant to temperatures from -35°C to +80°C

Technical Characteristics

Density (EN ISO 2811-1:2011)	1,40-1,50 kg/l
Solids by weight (ASTM D5201)	>85%
Service temperature	-35 ⁰ C min / +80 ⁰ C max

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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Neoproof[®] Polyurea C1

Hardness Shore A (EN ISO 868:2003/ASTM 2240) 76

Hardness Shore D (EN ISO 868:2003/ASTM 2240) 25

Consumption 0,65-0,75 kg/m² (on cementitious substrate)

Absorption Coefficient (EN 1062-3:2008) 0.00 kg/m² min^{0.5}

Substrate humidity <4%

Application temperature +5⁰C to +35⁰C

Elongation (23⁰C) 460%

Tensile strength at break (23⁰C) 9.8 N/mm²

Adhesion to concrete (ASTM D4541) > 3N/mm²

Pot life	Temperature (°C)	Time
	5 °C	120 minutes
	23 °C	90 minutes
	35 °C	50 minutes

Tack free	Temperature	Time
	5 °C	8 hours
	23 °C	4 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**, diluted with water (10-15% 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 C1** is applied after good stir with brush or roller, 24 hours after the priming with **Acqua[®] Primer NP**. **Neoproof[®] Polyurea C1** is applied in a single layer without dilution.

Special Notes

- **Neoproof[®] Polyurea C1** 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 atmospheric moisture: <85%. The application should take place between +5°C and +35°C.
- For demanding applications or when covering cracks bigger than 1,5 mm, **Neoproof[®] Polyurea C1** may be reinforced with specially designed non-woven polyester tissue **Neotextile[®] 90gr**. 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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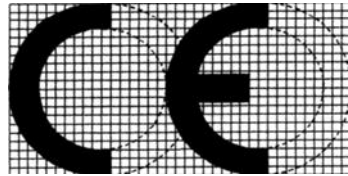
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Colours	White
Packaging	Sets of 20 kg in tin cans (components A&B have fixed weight proportion)
Tools cleaning	Use solvent Neotex[®] 1021 immediately after the application.
Stain removal	Use solvent Neotex[®] 1021 when the stains are still fresh and 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 C1

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