

Neoproof[®] Polyurea H

Brushable elastomeric hybrid polyurea - polyurethane waterproofing coating

Description

Neoproof[®] Polyurea H is a two-component, multi-purpose, brushable elastomeric hybrid polyurea-polyurethane waterproofing coating for various applications, when mechanical durability and outstanding waterproofing properties are required. It forms a blister-free, impermeable to moisture film, providing remarkable water uptake resistance, high mechanical properties and excellent resistance to chalking. It does not require any special application equipment.

Fields of application

- Roofs made of concrete, cement screeds
- Rooftops with requirement for resistance to stagnant water
- Metallic surfaces, such as pipes, after the application of the proper primer
- Over new or old polyurethane waterproofing layers
- Protection of polyurethane foam insulation
- Non-exposed applications, e.g. under tiles

Properties - Advantages

- Prevents moisture penetration, providing complete sealing
- Exhibits very high mechanical strength
- Offers increased resistance to bending and stretching
- No need of special application equipment
- Remarkable resistance against UV, without chalking
- 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 the material
- Long pot life
- Crack bridging properties
- Easy to apply
- Long-lasting waterproofing protection
- Ideal solution for waterproofing walkable roofs
- Compatible with other **Neoproof[®] Polyurea** coatings
- Resistant to temperatures from -35°C to +80°C



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Neoproof® Polyurea H

Technical Characteristics

Mixing ratio (by weight)	13,5A:6,5B
Elongation at break (ASTM D412)	430%
Tensile strength at break (ASTM D412)	4,4MPa
Adhesion strength (ASTM D4541)	>3N/mm ²
Hardness Shore A (EN ISO 868:2003/ASTM 2240)	60
Service temperature	-35°C min / +80°C max
Pot life (+23°C)	80 minutes
Drying time (+23°C)	8 hours
Dry to recoat (+23°C)	24 hours
Total hardening	~7 days
Consumption	1-1,2 kg/m ² for 2 layers (cementitious substrate)

Instructions for use

Substrate preparation: The surface must be stable, clean, dry, protected from rising moisture and free from dust, grease and loose materials. Any poorly adhering materials and older coatings should be removed and the surface should be thoroughly cleaned mechanically or chemically. Depending on the substrate, appropriate mechanical preparation may be required, in order to smooth the irregularities, open the pores and create the optimum conditions for adhesion. The surfaces should be flat, smooth and continuous (i.e. without holes, cracks, bays, etc.). In the opposite case, they should be treated accordingly (e.g. by proper puttying).

Priming: Prior to the application of **Neoproof® Polyurea H**, the proper **NEOTEX®** primer should be applied, depending on the substrate. In the case of cementitious substrates, it is proposed to apply the water-based epoxy primer **Acqua Primer NP**. In that case, the substrate temperature must be higher than +12°C.

Application: Following the priming of the surface, **Neoproof® Polyurea H** is applied in at least two layers by roller, brush or airless spray, without dilution. Before mixing the two components, component A should be mechanically stirred thoroughly for app. 1 minute. Components A&B are then mixed at the predetermined ratio and stirred for app. 3 minutes with a low speed electric stirrer



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until the mixture is homogeneous.

Special Notes

- *Application conditions:* Surface moisture: <4%, Relative atmosphere moisture: <85%. The application should take place under temperature between +5°C and +35°C.
- **Neoproof® Polyurea H** should not be applied under wet conditions, or if wet conditions are expected to prevail during the curing period of the product.
- Every subsequent layer of **Neoproof® Polyurea H** should be applied in a vertical or different direction than the previous one
- For demanding applications or when covering cracks bigger than 1,5 mm, as well as in the walls-floor intersections, **Neoproof® Polyurea H** should be reinforced with the specially designed non-woven polyester tissue **Neotextile® NP**. In such cases, at least three coats of the product are required.
- Expansion joints of the substrate should be primed with **Neotex® PU Primer** or **Acqua Primer NP** and then sealed with the polyurethane elastomeric sealant **Neotex® PU Joint**
- In cases of application under tiles, sprinkling of quartz sand is required on the final layer of the coating, while it is still fresh, in order to enhance the adhesion of the subsequent layer of the tile adhesive. After the hardening of **Neoproof® Polyurea H**, any loose grains should be removed with a high suction vacuum cleaner. It is advisable to use an elastic tile adhesive (C2TE S1)
- In cases of inverted roof insulation or insufficient thermal insulation, it is recommended to use appropriate roof ventilation.

Colours

Light beige (RAL 1015). Other colours available upon request.

Packaging

Sets of 20kg in metal cans (in the predetermined mixing ratio of components A&B by weight)

Tools cleaning

By solvent **Neotex® 1021** immediately after application.

Stain removal

By solvent **Neotex® 1021** when the stains are still fresh and damp. In case of hardened stains, by mechanical means.

Storage stability

A component: 2 years, stored in its original sealed packing, in an absolutely dry place, protected from frost, humidity and exposure to sunlight.

B component: 12 months, stored in its original sealed packing, in an absolutely dry place protected from frost, humidity and exposure to sunlight.

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