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Neoproof® Polyurea H

Brushable elastomeric hybrid polyurea - polyurethane

waterproofing coating

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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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Technical	Characteristics

	Mixing ratio (by weight)	13,5A:6,5B
	Elongation at break (ASTM D412)	430%
X	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
0	Pot life (+23°C)	80 minutes
П	Drying time (+23°C)	8 hours
	Dry to recoat (+23°C)	24 hours
2	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



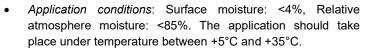


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until the mixture is homogeneous.

Special Notes



- **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.	

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.