



CONSTRUCTION CHEMICALS SINCE 1959

Neoproof[®] Polyurea

Cold-applied elastomeric polyurea systems ideal for the waterproofing of roofs

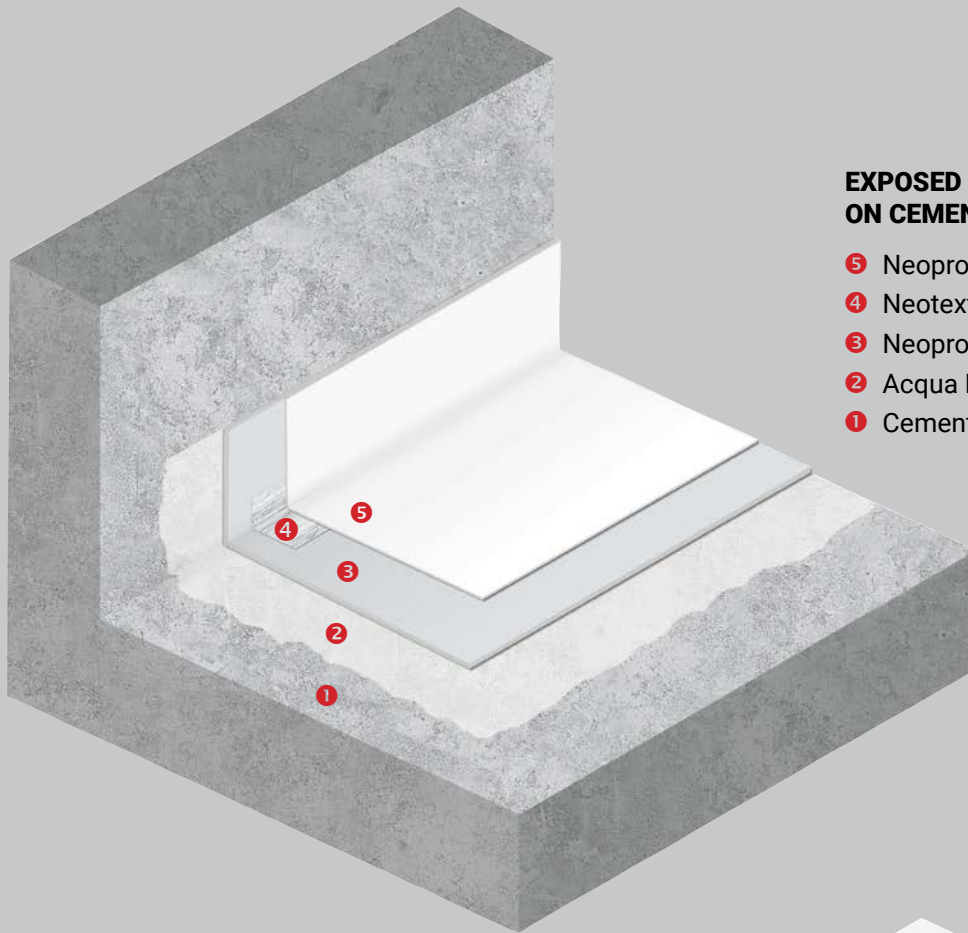


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Indicative build-up of Neoproof® Polyurea systems

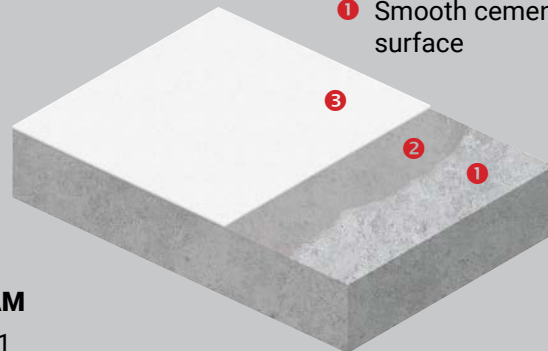


EXPOSED ROOF WATERPROOFING ON CEMENTITIOUS SUBSTRATE

- 5 Neoproof® Polyurea
- 4 Neotextile® NP tape 100gr
- 3 Neoproof® Polyurea R
- 2 Acqua Primer NP
- 1 Cementitious surface

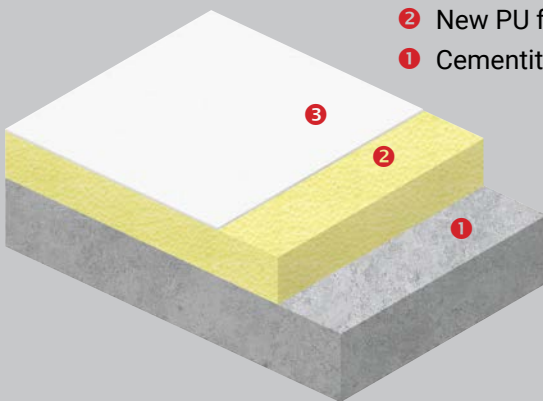
QUICK ROOF WATERPROOFING APPLIED WITHIN ONE DAY

- 3 Neoproof® Polyurea C1
- 2 Neodur® Fast Track PR
- 1 Smooth cementitious surface



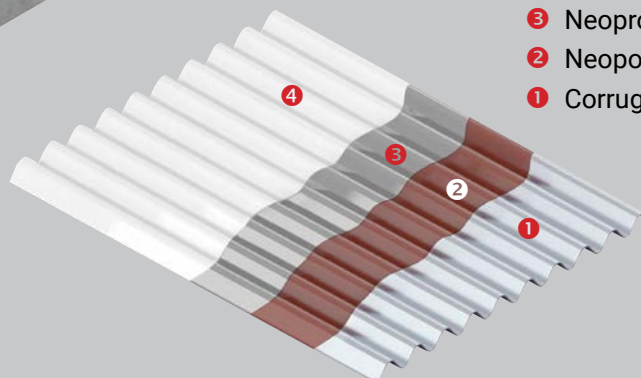
ROOF WATERPROOFING ON TOP OF NEW PU FOAM

- 3 Neoproof® Polyurea C1
- 2 New PU foam insulation
- 1 Cementitious surface



METAL ROOF WATERPROOFING

- 4 Neoproof® Polyurea
- 3 Neoproof® Polyurea R
- 2 Neopox® Special Primer 1225
- 1 Corrugated metal sheet





Neoproof® Polyurea

Cold-applied elastomeric polyurea waterproofing coatings for the long-lasting protection of construction surfaces in diverse applications

Fields of application

- ▶ Concrete roofs
- ▶ Metallic surfaces
- ▶ Bitumen membranes
- ▶ Over new or old waterproofing coatings
- ▶ On top of new PU foam insulation
- ▶ Water tanks (non-potable water)
- ▶ Non-exposed surfaces (e.g. under tiles)
- ▶ Foundation (exterior) walls

Properties - Advantages

- ▶ Zero water absorption
- ▶ Excellent resistance to early rain
- ▶ Ultra-long service life period
- ▶ Real long-term UV resistance
- ▶ Outstanding mechanical properties
- ▶ Remarkable adhesion on a wide variety of substrates
- ▶ Applicable by roller, brush or airless spray



Neoproof® Polyurea – Classification acc. to ETAG 005	
Useful Life	Category W3 (expected useful life of 25 years)
Climate Zones	Category M & S (moderate & severe climate)
Roof Slope	Category S1-S4 (slope <5% till >30%)
User Load	Category P4 (special, heavy)

Neoproof® Polyurea



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Cold-applied elastomeric, pure aliphatic polyurea waterproofing coating, for the protection of exposed roofs.

It exhibits outstanding UV stability, impeccable water uptake resistance and very high mechanical properties, thus protecting the substrate for ultra-long time periods.

Certified cool material with Solar Reflectance Index (SRI) of 109

Colour: White *

Packing: Sets (A+B) of 21kg and 5.25kg



Neoproof® Polyurea R



Cold-applied elastomeric polyurea waterproofing coating with resistance to root penetration. Ideal for roof gardens, green rooftops and planter boxes.

Colour: White, light grey RAL 7035, oxide red RAL 3009 *

Packing: Sets (A+B) of 19kg and 4.75kg



Neoproof® Polyurea C1



Innovative, high-build elastomeric brushable polyurea waterproofing coating for exposed roofs. May be applied in a single coat on smooth substrates - ideal for time-demanding projects.

Colour: White *

Packing: Sets (A+B) of 20kg and 5kg



Neoproof® Polyurea AR



Cold-applied elastomeric polyurea waterproofing coating with resistance to root penetration. Ideal for roof gardens, green rooftops and planter boxes.

Colour: White *

Packing: Sets (A+B) of 19kg



Version: Neoproof® Polyurea F



Cold-applied elastomeric polyurea, with enhanced resistance to fire, delaying the flame spread.

Reaction to fire: **Class E** according to **EN 13501-1**

* Available in other shades upon request



TECHNICAL CHARACTERISTICS

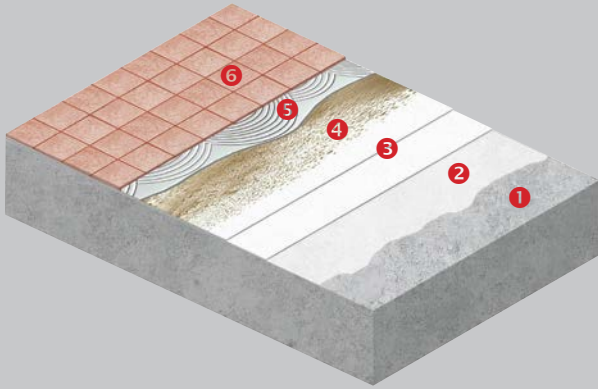
	Neoproof® Polyurea	Neoproof® Polyurea R	Neoproof® Polyurea C1
	Pure aliphatic, brushable polyurea with extreme resistance to UV radiation	Brushable polyurea for exposed & non-exposed applications	Brushable, high-build polyurea, applied in a single coat
Elongation at break (ASTM D412)	420%	400%	410%
Tensile strength at break (ASTM D412)	11,1MPa	8,6MPa	9,8MPa
Adhesion strength (ASTM D4541)	>3N/mm ²	>3N/mm ²	>3N/mm ²
Hardness Shore A (ASTM D2240)	78	73	76
Hardness Shore D (ASTM D2240)	30	22	25
Service temperature	-35°C min. / +80°C max.	-35°C min. / +80°C max.	-35°C min. / +80°C max.

APPLICATION CONDITIONS – CURING DETAILS

Substrate moisture content	<4%	<4%	<4%
Relative air humidity	<85% max	<85% max	<85% max
Ambient temperature	+5°C min. / +35°C max.	+5°C min. / +35°C max.	+5°C min. / +35°C max.
Pot life (+23°C)	100 minutes	80 minutes	90 minutes
Drying time (+23°C)	5 hours (tack-free)	3 hours (tack-free)	4 hours (tack-free)
Dry to recoat (+23°C)	18 hours	18 hours	18 hours
Early rain resistance	3 hours	1 hour	2 hours
Consumption	1-1,2kg/m ² for 2 layers (cementitious surfaces)	1-1,2kg/m ² for 2 layers (cementitious surfaces)	0,65-0,75kg/m ² for 1 layer (cementitious surfaces)

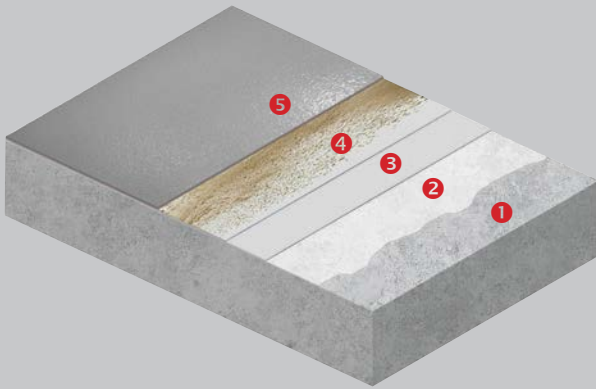
Appropriate primers for Neoproof® Polyurea systems

Substrate	Primer	Details
Concrete, cementitious screed	Acqua Primer NP	Application temperature +12°C min. / +35°C max.
	Epoxol® Primer	Application temperature +5°C min. / +35°C max.
	Neodur® Fast Track PR	Application of the 1 st layer of the Neoproof® Polyurea system on the same day
Metal	Neopox® Special Primer 1225 Neopox® Primer 815	Excellent adhesion on metal surfaces & anti-corrosive protection
Stainless steel, aluminium, galvanized surfaces	Neotex® Inox Primer	Very strong adhesion on glossy non-porous substrates
Bitumen membranes	Neopox® Primer BM	Suitable for membranes with or without mineral slates
New PU foam insulation	-	Direct application without primer
Old acrylic or PU waterproofing coatings	-	



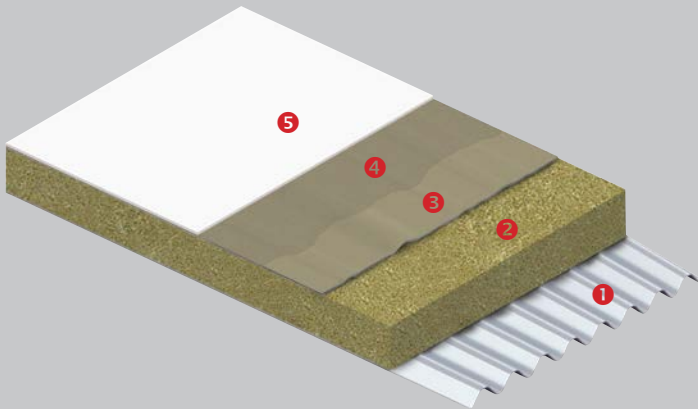
ROOF/TERRACE/BALCONY WATERPROOFING UNDER TILES

- 6 Tiles
- 5 Elastic tile adhesive
- 4 Quartz sand (broadcast)
- 3 Neoproof® Polyurea R
- 2 Acqua Primer NP
- 1 Cementitious surface



EXPOSED ROOF PARKING DECK WATERPROOFING

- 5 Neodur® FT Elastic
- 4 Quartz sand (broadcast)
- 3 Neoproof® Polyurea R
- 2 Acqua Primer NP
- 1 Cementitious surface



ROOF WATERPROOFING ON PVC MEMBRANE

- 5 Neoproof® Polyurea
- 4 Neotex® 1021
- 3 PVC Membrane
- 2 Mineral wool insulation
- 1 Corrugated metal sheet

Prior to the application of the products, please consult the respective NEOTEX® technical data sheets and/or the NEOTEX® Technical Dept.



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