



CONSTRUCTION CHEMICALS SINCE 1959

Neoproof[®] Polyurea

Brushable elastomeric polyurea system
ideal for the waterproofing of roofs





Neoproof® Polyurea

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

Fields of application

- ▶ Concrete roofs
- ▶ Metallic surfaces
- ▶ Mineral bitumen membranes
- ▶ On top of old acrylic and PU coatings
- ▶ On top of new PU foam insulation
- ▶ Water tanks (non-potable water)
- ▶ Underground exterior walls
- ▶ 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
- ▶ Long-term real UV resistance
- ▶ Outstanding mechanical properties
- ▶ Remarkable adhesion on a wide variety of substrates
- ▶ Application by roller, brush or airless spray



Neoproof® Polyurea Systems Build-up	Service Life Period
→ 2 layers Neoproof® Polyurea	
→ 1 layer Neoproof® Polyurea R & 1 layer Neoproof® Polyurea	
→ 2 layers Neoproof® Polyurea R	
→ 1 layer Neoproof® Polyurea C1	

Neoproof® Polyurea – Compliance to EOTA Technical Reports	
Resistance to fatigue movement - multiple crack bridging (ETAG 005, TR 008)	1000 cycles at -10°C (W3 – 25 years)
Resistance to UV ageing (ETAG 005, TR 010)	S / W3 / I4



Neoproof® Polyurea

Two-component, brushable 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



Two-component, brushable elastomeric polyurea waterproofing coating for the protection of various surfaces.

It exhibits long-term UV stability, remarkable water uptake resistance and very high mechanical properties.

Colour: White, grey RAL 7035 & terracotta RAL 3009 *

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



Neoproof® Polyurea C1



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

Colour: White *

Packing: Sets (A+B) of 20kg



Version: Neoproof® Polyurea F

Two component, brushable 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 strain 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.

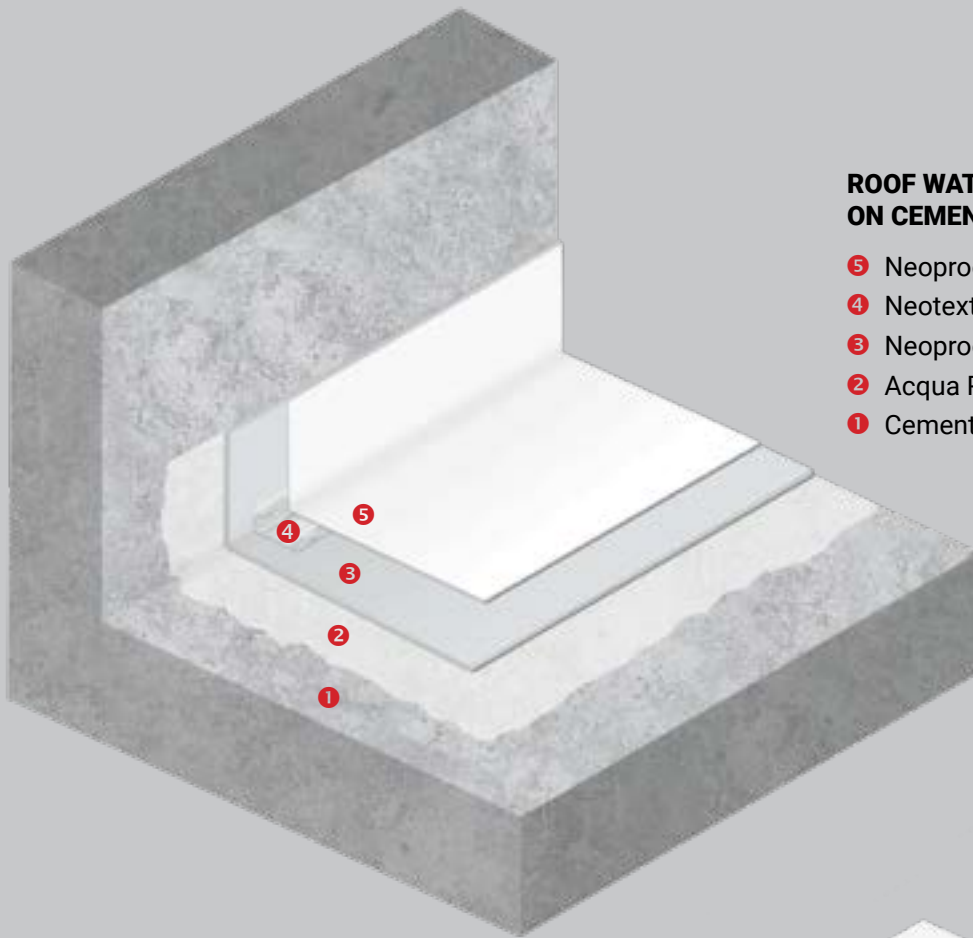
APPLICATION CONDITIONS – CURING DETAILS

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)

Aproprate primers for Neoproof® Polyurea

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	Excellent adhesion on metal surfaces & anti-corrosive protection
Mineral bitumen membranes	-	Direct application without primer
New PU foam insulation	-	
Old acrylic or PU waterproofing coatings	-	

Indicative build-up of Neoproof® Polyurea systems

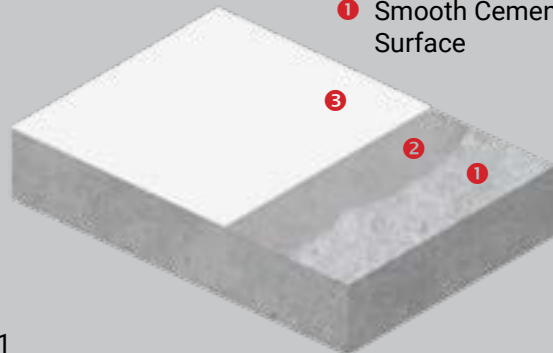


ROOF WATERPROOFING ON CEMENTITIOUS SUBSTRATE

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

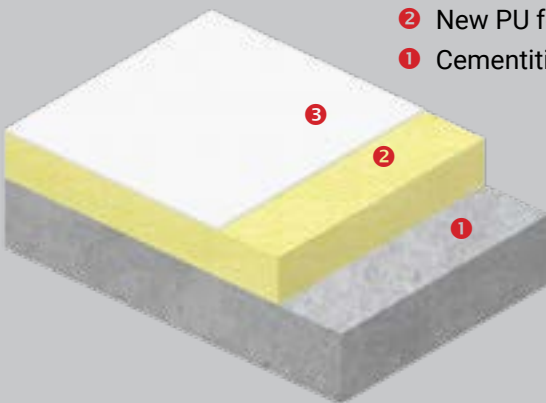
QUICK ROOF WATERPROOFING APPLIED WITHIN ONE DAY

- 3 Neoproof® Polyurea C1
- 2 Neodur® Fast Track PR
- 1 Smooth Cementitious Surface



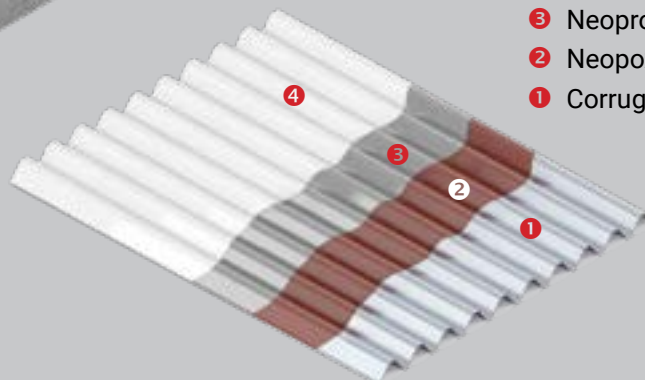
ROOF WATERPROOFING ON TOP OF PU FOAM

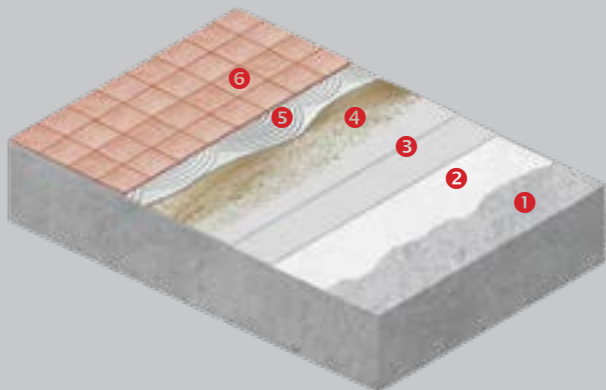
- 3 Neoproof® Polyurea C1
- 2 New PU foam insulation
- 1 Cementitious Surface



METAL ROOF WATERPROOFING

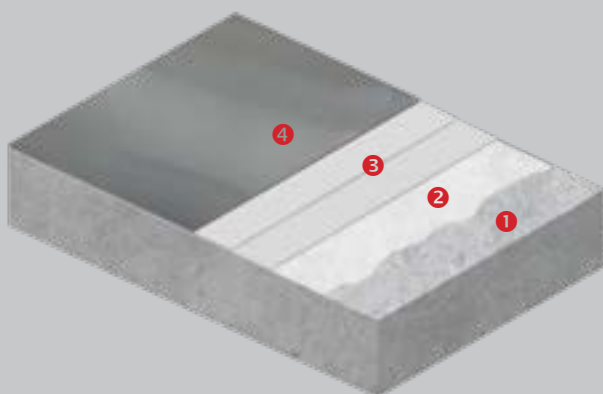
- 4 Neoproof® Polyurea
- 3 Neoproof® Polyurea R
- 2 Neopox® Special Primer 1225
- 1 Corrugated metal sheet





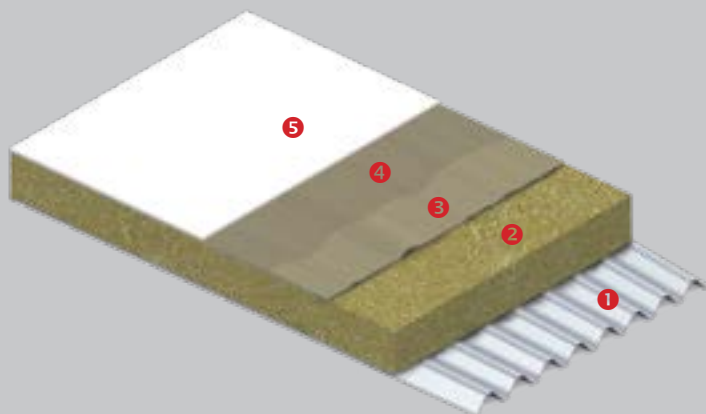
ROOF/BALCONY WATERPROOFING UNDER TILES

- 6 Tiles
- 5 Elastic tile adhesive
- 4 Quartz sand broadcasted
- 3 Neoproof® Polyurea R (in 2 layers)
- 2 Acqua Primer NP
- 1 Cementitious Surface



EXPOSED ROOF CAR PARK WATERPROOFING

- 4 Neodur® FT Elastic
- 3 Neoproof® Polyurea R (in 2 layers)
- 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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