Neoproof® PU360

Water-based polyurethane waterproofing coating for non-exposed applications

CE

Description

Water-based modified polyurethane elastomeric waterproofing coating, ideal for non-exposed applications on horizontal or vertical construction surfaces before plastering, tiling, laying of cementitious screeds, mortars and the installation of insulation and soundproofing panels.

Fields of application

- Under tiles in wet rooms (bathrooms, kitchens, etc.), terraces and roofs
- On drywall panels before plastering, tiling etc.
- Roofs and walls, prior to the installation of insulation and soundproofing panels

The surfaces require appropriate preparation and priming prior to the application of ***Neoproof® PU360****.*

Packing

13kg & 4kg

Colours

WHITE

Properties - Advantages

- Highly resistant to ponding water & alkalis of the cement
- Increased resistance to bending and stretching
- Excellent compatibility with subsequent cementitious layers (tile adhesives, cement screeds etc.)
- High adhesion and crack-bridging properties
- Fast-drying
- Applicable on various construction surfaces (concrete, plaster, metal, wood, etc.)
- Eco-friendly (does not contain solvents or bitumen) & user-friendly (water-based, one-component)

Certificates – Test reports

- CE Certification acc. to EN 1504-2
  Certificate of Conformity No. 1922-CPR-0386
- Test report by the external independent quality control laboratory Geoterra (No. 2016-369)
- Complies with the V.O.C. content requirements acc. to the E.U. Directive 2004/42/CE

Technical characteristics	
Density (EN ISO 2811-1)	1,44kg/L (±0,1)
Elongation at break (ASTM D412, 28 days)	300% (±30)
Tensile strength at max. load (ASTM D412, 28 days)	2,76MPa (±0,4)
Tensile strength at break (reinforced with Neotextile®, ASTM D412)	>5MPa
Adhesion strength (EN 1542)	>2,5N/mm²
Hardness Shore A (ASTM D2240)	70
Liquid water permeability (EN 1062-3)	<0,1kg/m²h^{0,5}
Permeability to CO_2 – Diffusion-equivalent air-layer thickness Sd (EN 1062-6)	>50m
Water vapour permeability – Diffusion-equivalent air-layer thickness Sd (EN ISO 7783)	<5m (Class I)
Service temperature	-5°C min. / +80°C max.
Consumption: 1-1,2kg/m² for two layers (cementitious surface)	

Application conditions	
Substrate moisture content	<4%
Relative air humidity (RH)	<80%
Application temperature (ambient - substrate)	+10°C min. / +35°C max.

Curing details	
Drying time (+25°C, RH 50%)	2-3 hours (initially)
Dry to recoat (+25°C, RH 50%)	12 hours
Full hardening	~ 7 days
** Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them*	

Appropriate primers on usual substrates

Substrate	Primer	Description - Details
Concrete, cement screed	**Revinex®** (diluted with water 1:4)	Water-based primer of high adhesion on cementitious substrates
	Silatex® Primer	Acrylic solvent-based primer, with high penetrating ability
	Vinyfix® Primer	Solvent-based primer based on vinyl resins, ideal for stabilizing brittle substrates
Bitumen membrane with mineral slates	**Revinex®** (diluted with water 1:4)	Water-based primer, suitable for stabilizing bitumen membranes with mineral slates, offering an ideal bridge of adhesion
Metal (iron, steel)	**Neotex® Metal Primer**	Water-based, one-component anti-corrosive primer, with excellent adhesion on old or new metal surfaces
Inox, galvanized steel, aluminium	**Neotex® Inox Primer**	One-component water-based primer, with high adhesion strength on glossy non-porous substrates

Instructions for use

Substrate preparation

The surface must be stable, clean, dry, protected from rising moisture and free of dust, oil, 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, to smooth the irregularities, open the pores and create the optimum conditions for adhesion. The surfaces should have the appropriate slopes and they should be sufficiently 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® PU360**, the proper **NEOTEX®** primer should be applied, depending on the substrate (see table). In the case of cementitious substrates, it is proposed to apply **Revinex®** diluted with water in a ratio **Revinex®**: water - 1:4 or the solvent-based primers **Silatex® Primer** or **Vinyfix® Primer**.

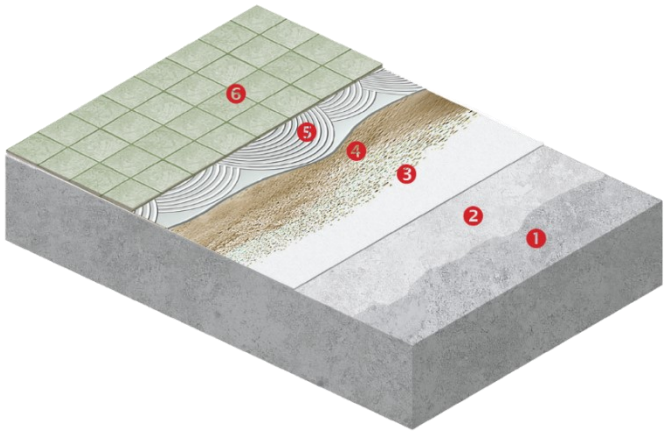
Application

Following the priming of the surface, **Neoproof® PU360** is applied, after thorough stirring, in at least two layers by roller, brush or airless spray. The first layer is diluted 5% with clean water, while the second layer (and every subsequent one) follows after app. 12-24 hours, applied undiluted. Every layer of **Neoproof® PU360** should be applied in a vertical or different direction than the previous one.

Along the intersections of vertical and horizontal elements (as well as in all other corners), in construction details (such as around and inside roof drains), along the joints, as well as when covering cracks, it is advisable that **Neoproof® PU360** is locally applied in advance, reinforced with the specially designed non-woven polyester fabric **Neotextile®** of 50gr/m^2 weight (“wet-on-wet” application of two layers with the fabric positioned in between).

In cases of projects with higher demand in terms of mechanical resistance and crack bridging, it is recommended that **Neoproof® PU360** is thoroughly reinforced with the non-woven polyester fabric **Neotextile®** in the whole application surface.

Indicative system build-up



WET ROOMS / TERRACE / BALCONY WATERPROOFING UNDER TILES

1. Cementitious substrate
2. *Primer:* **Revinex®** diluted with water (mixing ratio 1:4)
3. *Waterproofing layers:* **Neoproof® PU360** (min. 2 layers)
4. Quartz sand (broadcast)
5. Elastic tile adhesive
6. Tiles

*Consumption of **Neoproof® PU360**: 1-1,2kg/m^2 (for two layers)*

Special notes

- **Neoproof® PU360** should not be applied under wet conditions, or if wet conditions or rainy weather are expected to prevail during the application or the curing period of the product.
- Substrate temperature during application and curing must be at least 3°C above dew point to avoid condensation issues.
- In cases of application under tiles, plastering etc., it is recommended to broadcast quartz sand during the application of the final layer of the product, while it is still fresh, in order to enhance the adhesion of the subsequent layer of the tile adhesive, plaster, etc.. After the hardening of **Neoproof® PU360**, any loose grains should be removed with a high suction vacuum cleaner. It is advisable to use an elastic tile adhesive (indicative proposed type C2TE S1).
- The durability of the waterproofing system is enhanced by the increase of the total dry film thickness, which may be achieved through the application of an additional layer or layers.
- In case of new cement screed and soon after its laying, it is recommended to create suitable joints (per 15-20m^2 of surface area and at a depth approximately equal to ¾ of the thickness of the cement screed), which shall then be properly sealed (eg with closed-cell PE foam cord and **Neotex® PU Joint** after proper priming of

their sides). It is also necessary to create expansion joints around the perimeter, as above, and with a minimum width of 1cm. Any existing joints of the concrete slab should be transferred to the new substrate.

Appearance	Viscous liquid
Colours	White Also available in black and other shades upon request
Packing	13kg and 4kg in plastic pails
Cleaning of tools – Stains removal	By water immediately after application. In case of hardened stains, by mechanical means
Volatile organic compounds (V.O.C.)	V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AcWB: 40g/l (Limit 1.1.2010) - V.O.C. content of the ready-to-use product <40g/l
UFI code	HJ90-E0VF-W002-8YF8
Versions	**Neoproof® PU W**, water-based aliphatic polyurethane waterproofing coating **Neoproof® PU Fiber**, fiber-reinforced waterproofing coating **Neoproof® PU W -40**, with resistance to extremely low temperatures down to -40°C
Storage stability	2 years, stored in its original sealed packing, protected from frost, humidity and exposure to sunlight

CE 1922
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1922-CPR-0386 DoP No.: 4950-18 **EN 1504-2** **Neoproof® PU360** Surface protection products Coating

Water vapour permeability	Class I
Adhesion strength	≥1,5N/mm^2
Capillary absorption and permeability to water	W<0,1Kg/m^{2}h$^{0.5}$
Permeability to CO_2	S_D>50m
Reaction to fire	Euroclass F
Dangerous substances	Complies with 5.3

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