

POLY PROOF®



Product Description

Poly-Proof® is a 2-components, pure aliphatic, brushable polyurea waterproofing coating for roofs, when mechanical durability and outstanding waterproofing properties are required. It forms a blister-free, non-penetrating against moisture film, providing zero water absorption and remarkably high resistance against UV and mechanical stress.

Applications:

- ↳ Roofs made of concrete, cement boards, mosaic, cement slurries
- ↳ Rooftops with resistance to stagnant water
- ↳ Metallic surfaces after the application of the proper primer (use Poly-Proof® AGUA Primer - 2k water based epoxy primer - in the cases where anticorrosive protection is needed)
- ↳ New or old polyurethane waterproofing layers
- ↳ Top-coat over fast-setting sprayable aromatic polyurea
- ↳ Protection of polyurethane foam insulation

Properties/Advantages:

- ↳ Prevents moisture penetration by providing a complete sealing
- ↳ Offers increased resistance to bending and stretching
- ↳ Very high mechanical strength
- ↳ Remarkable resistance against UV
- ↳ 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 material
- ↳ Dries and cures quickly
- ↳ Long pot life
- ↳ Crack bridging properties
- ↳ Easy to apply
- ↳ Long-lasting waterproofing protection
- ↳ Ideal solution for waterproofing walkable roofs
- ↳ Resistant to temperatures from -35°C to +80°C

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Technical Characteristics

Density (EN ISO 2811-1:2011)	1,40-1,50 kg/l
Mixing ratio (weight proportion)	(13 A to 7 B by Weight)
Service temperature	-35°C min / +80°C max
Hardness Shore A (EN ISO 868:2003/ASTM 2240)	78
Hardness Shore D (EN ISO 868:2003/ASTM 2240)	30
Consumption	Aprox 1 kg/m ² in 2 coats on cementitious substrate
Absorption Coefficient (EN 1062-3:2008)	0.00 kg/m ² min ^{0,5}
Substrate humidity	<4%
Application temperature	+5°C to +35°C
Elongation (ASTM D412)	470%
Tensile strength at break (23°C)	10.1 N/mm ²
Adhesion to concrete (ASTM D4541)	> 3N/mm ²

Pot Life

Temperature	Time
5°C	140 minutes
23°C	100 minutes
35°C	60 minutes

Tack Free

Temperature	Time
5°C	10 hours
23°C	5 hours
35°C	3 hours

Recoat / Walkability

Temperature	Time
5°C	24 hours
23°C	18 hours
35°C	12 hours

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Instructions for use

Surface preparation: The surfaces should be smooth and continuous (i.e. without holes, cracks, bays, etc.). In the opposite case, they should be treated accordingly (e.g. with puttying). Moreover, they should be clean, dry and free from dust, oils, greases and loose material. Prior to the application, for the filling of the pores, the enhancement of the adhesion and the higher coverage of the material, it is suggested to apply Poly-Proof® Primer, diluted with water (10-15% by weight). The substrate temperature must be higher than +12°C. In the case of Metal Roof treatment, the use of a mesh is required on the corroded sheets.

Application: Mix the two parts adding Part B to Part A under stirring (400rpm) for 2-3 minutes. Poly-Proof® is applied after good stirring with brush, roller, or airless spray, 24 hours after the priming with Poly-Proof® Primer. Poly-Proof® is applied in two layers without dilution.

Special Notes

- ✎ Poly-Proof® should not be applied under wet conditions, or if wet conditions are expected to prevail during the curing period of the product.
- ✎ **Application conditions:** Surface moisture: < 4%, Relative atmosphere moisture: < 85%. The application should take place under temperature between +5°C and +35°C.

Color	White
Packaging	Sets of 10kg in tin cans (components A&B have fixed weight proportion)
Tools Cleaning	Use solvent cleaning agent immediately after application
Stain Removal	Use solvent cleaning agent when the stains are still fresh & damp. In case of hardened stains, use mechanical means.
Storage Stability	Part A: 2 years (5-45°C) in sealed tin cans. Part B: 18 months (5-35°C) in sealed tin cans.

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