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| PRODUCT | Polyroof P 2000 |
| MISSION | Polyurea resin based waterproofing coating |
| CHARACTERISTICS | Polyroof P 2000 is a two-component coating based on polyamines and isocyanates free of plasticizers, mineral fillers and solvents (VOC 0). The product is applied using special Hot Spray bi-mixer pumps and in a few seconds forms a film that adapts perfectly to the substrate; Polyroof P 2000, once hardening is complete, offers excellent elasticity, absence of joints, excellent mechanical and chemical resistance. Furthermore, the membrane is also anti-root. Thanks to these characteristics Polyroof P 2000 can be used on most substrates (even with complex geometry), after suitable preparation, thanks to its high adhesion capacity and also being resistant to UV rays it can be left exposed. It is used for waterproofing roofs, floors, hanging gardens, walls in contact with the ground, swimming pools, driveways, protection of concrete structures, sheet metal, steel, wood, etc. |
| APPEARENCE | Component A: low viscosity yellow liquid (coloured with special paste) Component B: low-viscosity brown liquid |

CHARACTERISTICS OF THE LIQUID PRODUCT

| CHARACTERISTICS | VALUE | TOLERANCE | U.M. |
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| Specific weight | 1,10 | ± 0,05 | Kg/dm ³ |
| Dry mass residue | 100 | ± 1 | % |
| Viscosity | 880 | ± 80 | mPa.s |
| Mixing ratio by volume | A : B = 1 : 1 | | |

APPLICATION INSTRUCTIONS

| TOOLS | THINNING | TYPE OF THINNER | TOOL CLEANING |
|--------------------|--------------|-----------------|---------------|
| Bi mixer Hot spray | Ready to use | | DIL A1 |

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| LAYING SURFACE | The substrates in general must be compact, free of release substances, oils, grease, dust and cracks and have a relative humidity of <4%. Always provide for a mechanical treatment and / or the use of a suitable primer to ensure the best coupling surface for Polyroof P 2000 (contact the technical office of Casali S.p.A.). For cementitious surfaces, a compressive strength of 25 MPa and a tensile strength of at least 1.5 N / mm ² are also required. All substrate repair operations must be carried out before applying the product. |
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| CONSUMPTION | We suggest to apply the product in 1 coat making sure to obtain the correct thickness. |
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| APPLICATION INSTRUCTIONS | <p>The temperature of the substrate must be between 10 and 40 ° C and the relative humidity of the environment must not exceed 85%. Always apply at a temperature 3 ° C above the dew point to avoid detachment.</p> <p>The hot spray bi mixer machine must have separate feed pumps, have a product flow rate between 2 and 10 l / minute, and must be able to preheat the components and pipes. Furthermore, it must have a variable mixing system, electronically controlled, capable of maintaining the mixture ratio indicated in the technical data sheet unchanged and having the right spray pressure (between 140 and 240 bar). We recommend:</p> <ul style="list-style-type: none"> - mount a pneumatic mixer on the lid of component A to make the product uniform - on the cover of component B fit a dehumidifying filter to prevent air infiltration that could cause the component to harden - Comp. A: 70 ° C Comp. B: 65 ° C piping: 65 ° C pressure: 170 Bar |
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| HARDENING AT 23° C AND 50 % U.R. | <p>Pot life: 8 – 9 sec Interval between coatings: MAX 2 h</p> <p>The times shown are intended for standard laboratory conditions and can vary depending on environmental conditions.</p> |
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| CHARACTERISTICS OF THE DRY PRODUCT | | | |
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| CHARACTERISTICS | VALUE | TOLERANCE | U.M. |
| Breaking load | 14 | ± 0,5 | MPa |
| Elongation at break | 420 | ± 10 | % |
| Shore D hardness (after 24 h) | 42 | ± 1 | |
| Abrasion resistance (CS10, 1000 rounds, 1000 gr) | 10 | ± 0,2 | mg |
| Water vapour permeability | μ = 2000 0,9 g/m ² giorno | | |
| Water permeability | 0,002 kg/mq h 0,5 | | |
| Fire resistance (EN 13501 – 5) | Broof - t2 | | |

| LAYING SURFACE ADHESION | | | |
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| LAYING SURFACE | VALUE | TOLERANCE | U.M. |
| Concrete (with epoxy primer) | 4 | ± 0,1 | MPa |
| Plywood (with epoxy primer) | 1,6 (surface breaking) | ± 0,1 | MPa |
| Steel (PU primer) | 5,3 | ± 0,1 | MPa |
| PU foam 150 Kg/m ³ | > 1,5 (surface breaking) | ± 0,1 | MPa |
| Fiber cement | 2,5 | ± 0,1 | MPa |





| CHEMICAL RESISTANCE | |
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| SUBSTANCE | RESISTANCE 5=excellent 0=no resistance |
| Water (15 days, 80° C) | 5 |
| Xilene (7 days, 80° C) | 0 |
| Isoporpyl alcohol (7 days 80 ° C) | 1 |
| Phosphoric acid 50% (7 days 80 ° C) | 0 |
| Ammonia 3% (7 days 80 ° C) | 5 |
| 3M 9% hydrochloric acid (7 days 80 ° C) | 4 |

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| PACKAGING INSTRUCTIONS | COLOURS AVAILABLE RAL 1001, RAL 7011, RAL 5015, tile and other on request | PACKAGING Component A. = 188 Kg Component B. =208 Kg |
| STORAGE INSTRUCTIONS | STORAGE TEMPERATURE MIN 10° C – MAX 30° C | STABILITY IN THE ORIGINAL PACKAGE 12 months |
| SAFETY STANDARDS | Please read the safety data sheet carefully before using this product. | |

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| WARNINGS | Component B fears humidity and if kept at low temperatures it can become cloudy. If this occurs, simply heat the product. Always keep the drums on pallets and in any case never in contact with the ground. |
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