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Neodur® PB 1K

One-component, bitumen-modified polyurethane elastomeric waterproofing coating

Description

One component, bitumen-modified polyurethane coating, suitable for long-lasting waterproofing of non-exposed surfaces

Fields of application

- Non-exposed surfaces, with requirement of resistance to ponding water
 - Wet rooms (under tiles)
 - Foundations, basements, terraces, balconies, planter boxes
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Properties - Advantages

- High elasticity
 - Excellent adhesion on a wide variety of substrates
 - Increased resistance to stagnant water & abrasion
 - Crack bridging properties
 - Fast drying
 - Remains elastic in very cold temperatures down to -40°C
 - High chemical resistance
 - Easy application by brush, roller or airless spray
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Technical Characteristics

Density	1,28kg/L
Adhesion strength (EN 1542)	> 2N/mm ²
Elongation at break (ASTM D412)	850% (±20%)
Hardness Shore A (EN ISO 868:2003 / ASTM 2240)	28
Surface drying (+23°C)	30 minutes
Recoating	1 - 48 hours, depending on ambient conditions
Drying time	12 - 24 hours, depending on ambient conditions
Service temperature	-40°C min / +80°C max
Consumption	700-850gr/m ² per layer



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Instructions for use

Surface Preparation: The surface must be stable, clean, dry, protected from rising moisture and free from dust, 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, in order to smooth the irregularities, open the pores and create the optimum conditions for adhesion. The surfaces should be flat, smooth and continuous (i.e. without holes, cracks, bays, etc.). In the opposite case, they should be treated accordingly (e.g. **Neotex® PU Joint** in cracks and joints)

Priming: Prior to the application of **Neodur® PB 1K**, the proper **NEOTEX®** primer should be applied, depending on the substrate. In the case of cementitious substrates, it is proposed to apply the polyurethane primer **Neotex® PU Primer** or the water-based epoxy primer **Acqua Primer NP**.

Application: Following the priming of the surface, **Neodur® PB 1K** is applied, without dilution and after thorough stirring, in at least 2 layers, by brush, roller or airless spraying equipment. The drying time of each layer may be heavily affected by the prevailing ambient conditions (temperature and humidity). Depending on the conditions, the next layer is applied in 1 to 48 hours, undiluted, by brush, roller or airless spraying equipment.

Notes

- **Application conditions:** Substrate moisture content <4%. Relative air humidity <85%. Ambient and substrate temperature: +8°C min / +35°C max
- **Neodur® PB 1K** should not be applied under wet conditions, or if wet conditions or rainfall are expected to prevail during the curing period of the product.
- The consumption of each layer should not exceed 1kg/m², in order to avoid possible bubbling in the material's mass.
- **Neodur® PB 1K** should not be left exposed to solar radiation.
- In cases of inverted roof insulation or insufficient thermal insulation, it is recommended to use appropriate roof ventilation.
- In cases of application under tiles, sprinkling of quartz sand is required on the final layer of the coating, while it is still fresh, in order to enhance the adhesion of the subsequent layer of the tile adhesive. After the hardening of **Neodur® PB 1K**, any loose grains should be removed with a high suction vacuum cleaner. It is advisable to use an elastic tile adhesive (C2TE S1)
- For demanding applications or when covering cracks bigger than 1,5 mm, as well as in the walls-floor intersections, **Neodur® PB 1K** should be reinforced with the specially designed non-woven polyester tissue **Neotextile® NP**. In such cases, at least three coats of the product are required.

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Packing	23kg in metal cans
Colour	Black
Cleaning of tools	By Neotex® 1021, immediately after application.
Stain removal	By Neotex® 1021, immediately after application. By mechanical means, if fully hardened.
Storage stability	12 months, stored in its original sealed packing, in an absolutely dry place, protected from frost, humidity and exposure to sunlight.

The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX® SA. It is offered as a service to designers and contractors in order to help them find potential solutions. However, as a supplier, NEOTEX® SA does not control the actual use of the product and therefore cannot be held responsible for the results of its use. As a result of continual technical evolution, it is up to our clients to check with our technical department that this present data sheet has not been modified by a more recent edition.