



NEOPROOF PUA 850PR

PURE POLYUREA BASED, TWO COMPONENT, FAST CURING WATERPROOFING MATERIAL

DEFINITION:

NEOPROOF PUA 850PR is a two-component, solvent and plasticizer-free, pure polyurea system consisting of 100% solids. It is applied with high pressure hot spray technique using application machines designed for two-component products. NEOPROOF PUA 850PR is an elastic waterproofing product with high mechanical and chemical resistance. It adheres very well to concrete, metal and mineral surfaces. It dries fast, service time is short. It does not form air bubbles on properly prepared and primed floors.

AREAS OF APPLICATION:

- Roofs, balconies, terraces,
- In green roof systems,
- Swimming pools, water tanks,
- On the roofs of the parking lot
- In steel and concrete pipes,
- It is used in underground structures.

ADVANTAGES:

- It can be used on many surfaces with the right primer,
- VOC free and odorless
- It can be used on horizontal and vertical surfaces,
- Creates a monolithic, joint-free surface,
- Very fast to apply and the surface to be ready for use,
- Suitable for continuous water contact,
- Flexible, has high mechanical and abrasion resistance,
- Excellent resistant to underground chemicals.
- It maintains its elasticity up to -45 OC.
- It is thermoset. It does not soften at high temperatures.
- It has ASTM G160-12 certificate that it does not produce microorganisms.
- It has a plant root resistance certificate according to the CEN/TSE 14416 standard.

TECHNICAL SPECIFICATIONS

Physical Properties:

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Appearance	A Com.: Honey Color,Liquid B Com.: Grey, Liquid	-
Viscosity (Brookfield cP)	A Com.: 800 ± 100 B Com.: 510 ± 50	EN ISO 2555
Density (gr/cm3)	A Com.: 1,00 ± 0,05 B Com.: 1,10 ± 0,05	EN ISO 2811-1
Solid by Volume (% wt)	A Com.: 100 B Com.: 100	EN ISO 3251



Note: This product is for professional users. The information in this publication is based on our professional knowledge and experience. This information does not eliminate the obligation of users of our products to test their suitability for their place of use. As the implementation and use of our products is beyond our control, none of the recommendations are within our warranty. Users should evaluate our products on their own terms and are solely responsible. The technical data sheets of all our products are updated at regular intervals. Users are responsible for obtaining the latest version.

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Mechanical Properties;

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Elongation at Break (%)	>400	EN ISO 527 ASTM D 412
Tear Resistance (N/mm2)	>50	EN ISO 527 ASTM D 412
Tensile Strength (N/mm2)	>18	EN ISO 527 ASTM D 412
Adhesion Strength (N/mm ²)	>2	EN 1542 ASTM D 4541
Surface Hardness (Shore A)	>90	EN ISO 868 ASTM D 2240

Technical Properties After Application And Curing;

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Application Thickness (mm)	2	-
Tack free time (sec.)	3-5	Surface control after spray application
Touch Dry (hour)	13-15	23°C - 50% RH
Full Cure (day)	7	

APPLICATION INFORMATION:

Surface Preparation: Application surfaces must be dry and clean. Concrete and formwork residues mechanically; oil, grease, fuel and paraffin wastes should be cleaned using chemical solvents. There should be no roughness, pits and cracks on the surfaces to be applied. Such damaged and unstable surfaces should be repaired and corrected using suitable products. If necessary, it should be overhauled with floor grinders or diamond-tipped machines. After these processes, the surface should be cleaned of dust with industrial vacuum tools. The prepared surface should be primed with a suitable primer. It may be necessary to apply 2 coats of primer on very absorbent concrete surfaces. The upper surface of the subfloor The surface retention of the

subfloor should meet an average of 1.5 N/mm2, and the compressive strength should meet a minimum of 25 N/mm2. Min. Care should be taken to ensure that it is above +10°C

Application:

NEOPROOF PUA 850PR is applied by spraying with special application machines with the values specified in the table below. The application thickness should be at least 1.5 mm. It is important to check that the material is thrown in equal amounts to all sides in the entire applied area and that the thickness is measured at certain intervals to ensure the most ideal application. Weak points should be reviewed and all operations such as fine applications and repairs should be completed



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within 4 hours. Care should be taken to protect the applied surfaces (such as water, dew, dust) for at least 24 hours. It should be covered with a single layer of NEOTOP PU 625TC aliphatic based polyurethane in places that will be constantly exposed to UV.

	A Component	B Component
Mixing Ratio (By Volume)	100	100
Process Temperature, °C	70 - 80	70 - 80
Process Pressure, bar	150 - 200	150 - 200

Consumption:

2,0-2,2 KG/m²

PACKAGING INFORMATION:

1 Set of 425KG NEOPROOF PUA 850PR;

Component A: 225KG metal drum

Component B: 200KG metal drum

STORAGE AND SHELF LIFE:

If the containers of NEOPROOF PUA 850PR are unopened and protected from direct sunlight and the risk of freezing, it can be stored at temperatures between +5 °C and 25 °C for 9 months from the date of production.

WARNINGS

No other material should be added to the NEOPROOF PUA 850PR product. Opened packages should be completely finished and should not be left unfinished. Do not thin with any thinner. After curing, NEOPROOF PUA 850PR is completely healthy.

HEALTH/SAFETY INFORMATION

During the application, work clothes, protective gloves, glasses and masks in accordance with the occupational and worker health rules should be used. Due to the irritating effects of the uncured product, the components should not come into contact with the skin and eyes. In case of contact, wash with plenty of water and soap. If swallowed, seek medical advice immediately. For detailed information, ask your dealer for the Safety Data Sheet (MSDS). Keep out of reach of children. Comply with the Safety Data Sheet (SDS) prepared in accordance with the EU directives regarding the product.



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