

NEXA POLYUREA

Liquid membrane, based 100% on hot-applied polyurea, 1:1 in volume, for waterproofing and protection

Description:

High-performance liquid bicomponent polyurea membrane, 100% solids, specifically designed for hot application using a bicomponent spray gun. This product, with a 1:1 volume ratio, demonstrates exceptional flexibility and incorporates a specially formulated curing agent for superior adhesion and durability. Highly recommended for industrial and commercial applications that demand outstanding resistance to abrasion and impact.

Approved Uses

Waterproofing and protection of:

- Inaccessible roofs, limited to maintenance (Terraces, balconies, and roofs made of metal, aluminum, or fiber-cement...).
- Roofs with heavy protection (Bridge platforms and cement surfaces...).
- Walkable roofs (Terraces, balconies...).
- Roofs with heavy traffic (Parking lots, stations, stadium stands, shopping centers...).
- Retention tanks (Water tanks and irrigation channels...).
- Wastewater and sewage treatment plants.
- Green roofs.
- Buried walls.
- Protection of polyurethane or polystyrene foam.
- Sealing of cementitious surfaces.
- Protection of concrete tanks with high chemical resistance (phosphates, hydrolysis, various % of acids, and various industrial products; consult chemical type, % purity, and water temperature).
- Foundations.

Limitations

- Do not apply to unstable substrates.
- Ensure adequate ventilation when applying indoors.
- For chemical applications, seek guidance from the technical department.
- Improper treatment of cracks and specific areas may diminish the longevity of waterproofing. Not recommended for exposure to UV light.
- UV resistance can be amplified by applying a coat of NEXA UV PROTECTIVE (Pigmented), effectively preventing yellowing, color changes, or chalking.

Advantages

- Rapid curing. Gel formation time of 8–14 s.
- Membrane free of bubbles and defects.
- 100% solids.
- No plasticizers.
- Catalyst without toxic heavy metals.
- Humidity or other weather conditions will not affect curing.
- Good chemical resistance.



- Excellent mechanical properties, high tensile strength, tear resistance, and abrasion resistance.
- Excellent resistance to extreme temperatures (–40°F to +176°F).
- Shock temperature of 662°F.
- Allows vapor diffusion: No moisture accumulation occurs under the membrane.
- Availability of primers for almost all substrates.

Application

- Requires a smooth, clean, dry substrate without residual moisture and is as solid as possible.
- Use a primer suitable for the substrate characteristics.
- Hot Application: The containers of the components should be heated to a temperature of approximately 77°F before mixing.
- Application with a two-component gun that maintains the product at 158°F to 176°F, also in the hose, and with a power of 230 psi (±2900 psi).
- For application in pools or reservoirs with treated water, it is recommended to protect the product from UV radiation with tiles.

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WATERPROOFING AND PROTECTION

Presentation and Colors

Pigmented products are packaged in metal containers of 496 lbs (CA) and 496 lbs (CB).

- Red container: Component A Isocyanate (Transparent yellow-brown color).
- Blue container: Component B polyamine mixture (Neutral color if not pigmented).

Container Stability

12 months in a dry place between 41°F to 77°F.

Transportation, Preventive measures and Storage

Refer to the safety data sheet.

The information provided serves as a recommendation based on laboratory tests and our current knowledge. Different conditions on construction sites may result in variations from the given information; therefore, our warranty is limited to the supplied product. For any questions, please contact our technical department.

Technical data of the membrane

CONCEPTS	RESULTS
Service temperature	-40°F to 175°F
Shock temperature	662°F
Hardness	Shore A / 90 Shore D / 40
Tensile strength at 73°F	2600 psi
Elasticity percentage at 73°F	>400%
Shear resistance	6500 psi
Water vapor transmission	0.005 lb/ft ² MTH.
Estimated minimum lifecycle	W3 / 25 years
Climate zone	S / Severe
Roof slope	S1-S4 / <5% > 30%
Minimum substrate temperature	TL3 / -4°F
Maximum substrate temperature	TH4 / 194°F
Usage loads	P1 / P4

Technical data of the liquid product

CONCEPTS	RESULTS
Viscosity	Component A 1000 cSt Component B 1500 cSt
Specific weight	Component A 0.04 lb/in ³ Component B 0.04 lb/in ³
Specific weight of dry membrane	+ - 0.04 lb/in ³
Geltime	8-14 seconds
Walkability	Walkable in 5 minutes



*laboratories working with us.

For more information about our products and systems, as well as technical documentation downloads or safety data sheets, please visit our website or contact us.

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