NEXA PU CLASSIC

Liquid polyurethane membrane for waterproofing and protection

WATERPROOFING AND PROTECTION

Description:

Liquid polyurethane membrane for waterproofing and protection. Single-component product that cures through ambient air humidity, forming a continuous and elastic membrane with excellent mechanical and adhesion properties, making it resistant to weathering, extreme temperatures, and chemicals.

Approved Uses

Waterproofing and protection of:

- Inaccessible roofs or decks, limited to maintenance (Terraces, balconies, and roofs made of metal, aluminum, or fiber-cement...).
- Heavy-duty protected weight-bearing roofs (Bridge platforms and cement surfaces...).
- Roofs with adhesive coatings (Bathrooms, kitchens, and wet areas).
- Walkable roofs or decks (Terraces, balconies...).
- Roofs with heavy traffic (Parking lots, stations, stadium stands, shopping centers, etc.).
- Retention tanks (Water tanks and irrigation systems...).
- Green roofs.
- Underground structures.
- Asbestos encapsulation and protection, preventing the migration of asbestos particles.

Supported Substrates

Concrete, cement, mosaic, fiber-cement, tiles, acrylics restoration and asphalt emulsions, EPDM, wood, rusted metals, galvanized steel.

Advise: For other substrates, tests should be conducted to verify adhesion.

For specific details or conditions on special substrates, please contact the technical department.

Advantages

- Easy application.
- Excellent adhesion.
- Adapts to any surface shape.
- Allows restoration avoiding demolition or overweight.
- Easy detection and repair of ruptures.
- High resistance to weathering and UV.
- Excellent resistance to extreme temperatures (–40°F to +176°F).
- Shock temperature of 392°F.
- High resistance to abrasion and tension.
- Great elasticity >600%.
- Suitable for continuous contact with water, hydrolysis, and microorganisms.
- High chemical resistance.
- Once cured, the membrane is non-toxic.
- Allows vapor diffusion.

Application

- Requires a smooth, clean, dry surface without residual moisture and as solid as possible.
- Use a flexible two-component mortar for waterproofing or a single-component concrete repair mortar to adapt to irregular or defective substrates.
- Can be applied with a roller, brush, or airless spray gun.
- In case of dilution, apply only solvent in a maximum proportion of 10%.
- Best mixing the contents with a low-speed electric mixer.
- For single-layer applications, use a notched trowel with serrations of about 0.11”, a defoamer and an accelerator. Pot life with an accelerator is approximately 30 minutes.
- Recoating time is between 6-24 hours, or about 3-4 hours when using an accelerator.
- Recoating should be done before 48 hours. If exceeded, NEXA PRIMER PU 2K should be used.
- Use a primer suitable for the substrate. Allow it to dry completely before application (Approx. 4 hours).
- Reinforce specific points, substrates with significant movement, active cracks, etc.
- To increase abrasion resistance and have a walkable pavement system or to enhance UV resistance (avoiding yellowing, chalking, or color changes), apply pigmented NEXA UV PROTECTIVE.
- Not suitable for application in swimming pools or reservoirs with treated water.
- Once opened, we recommend using the entire content.

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- We recommend reinforcing with reinforcement (EPDM tape reinforced with polyester fabric for specific points such as angles, expansion joints, active cracks, and insulation joints) or mastic (see NEXA MASTIC PU).
- For a slip-resistant application, add white corundum to the final layer of NEXA UV PROTECTIVE (varying its particle size according to the final use).

Cleaning

- Clean tools and equipment with a solvent.

Presentation and Colors

Metal containers of 55.115 lbs and boxes of 4 units of 13.228 lbs.
White (RAL 9010), Gray (RAL 7040), Tile, Green (RAL 6021), Beige (RAL 1014 and RAL 1015).

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	-40ºF to 175ºF
Shock temperature	392ºF
Hardness	Shore A / 70
Tensile strength at 73ºF	800 psi
Elasticity percentage at 73ºF	>600%
Water vapor transmission resistance	0.09 lb/ft²·MTH
Fatigue motion resistance	Pass
Adhesion to concrete	>290 psi
QUV Weathering Resistance Test	Passes 200h
Thermal resistance (100 days at 175ºF)	Pass
Hydrolysis (H2O, 30 days - cycle 60 - at 60 to 212ºF)	Without significant changes in elastomeric properties
Hydrolysis (8% KOH, 15 days at 120ºF)	
HCl (PH=2, 10 days at RT)	
Estimated minimum lifecycle	W3 / 25 years
Climate zone	S / Severe
Roof slope	S1-S4 / <5% > 30%
Minimum substrate temperature	TL3 / -4ºF
Maximum substrate temperature	TH1-TH4 / 86ºF to 194ºF
Usage loads	P1 / P4

Technical data of the liquid product

CONCEPTS	RESULTS
Viscosity	3000-6000 cSt
Specific weight	0.04 -0.05 lb/in
Flash Point	108ºF
Recoat time	6-24 hours
Surface dry time at 77°F and 55% RH	6 hours

** 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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