

NEXA PU UV

The 100% aliphatic, non-yellowing, and elastic liquid polyurethane membrane for waterproofing and protection

Description:

NEXA PU UV is a single component 100% aliphatic polyurethane liquid membrane. When cured it produces a tough but highly elastic membrane that does not yellow. The product has been developed to offer a solution when color stability and single coat application are required. This single coat application is an excellent way to save labor, and also to minimize errors that occur with multiple coat applications mainly due to inter-bonding failures.

NEXA PU UV is self-leveling, with a good viscosity profile over a wide temperature range that will cure to form a bubble-free membrane that is recommended to be applied in a single coat. The product will retain its color stability even when applied in dark colors and especially when applied in white, and will have excellent solar reflectance for many years.

Approved Uses

Waterproofing and protection of:

- Inaccessible roofs or decks, limited to maintenance (Terraces, balconies, and roofs made of metal, aluminum, or fiber-cement, polyurethane foam protection...).
- To increase U.V. resistance avoiding chalking, discoloration and yellowing in other products.
- Anti-corrosion treatment.

Supported Substrates

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

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

Limitations

- Not suitable for application in swimming pools or reservoirs with treated water.

Advantages

- 100% aliphatic product that does not yellow, change color, or peel.
- Thick film application without the formation of bubbles.
- Excellent adhesion on almost all substrates.
- Liquid product that conforms to any roof shape.
- Allows restoration avoiding demolition or overweight.
- Easy detection and repair of ruptures.
- High resistance to weathering and UV. The white color serves as a solar reflector, effectively lowering the interior temperature of the building.
- Low viscosity.
- Excellent resistance to extreme temperatures (ranging from -40°F to $+194^{\circ}\text{F}$ / -40°C to $+90^{\circ}\text{C}$). Maximum shock temperature 392°F (200°C).
- High elasticity.
- Suitable for continuous contact with water, hydrolysis, and microorganisms.

- High chemical resistance.
- Once cured, the membrane is non-toxic.
- Treatment for metal structures against water, corrosion (rust), and other atmospheric agents. Increases the resistance of metal structures to UV rays, acid rain, temperature fluctuations, pollution, hail, and other atmospheric agents.

Application

- Requires a smooth, clean, dry surface without residual moisture and as solid as possible.
- Use NEXA Smart Flex 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.
- We recommend stirring the product before use with the help of a low-speed electric stirrer (300- 400 rpm) to avoid the inclusion of air in the mixture.
- Used as a protective coating for polyurethane foam to increase UV resistance, thereby preventing chalking, color change, and yellowing in other products.
- In case of dilution, apply only solvent in a maximum proportion of 10%.
- The recoat time is within 24 hours.
- 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.
- 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 walkable or anti-slip systems, consult NEXA UV PROTECTIVE.

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- Once opened, we recommend using the entire content.

Consumption

- As a protective layer for polyurethane foam or to increase UV resistance: 0.20-0.25 lb/ft² (1-1.2 kg/m²).
- As an anti-corrosion treatment: 0.20-0.25 lb/ft² (1-1.2 kg/m²).
- As a waterproofing membrane: 0.31 lb/ft² (1.5 kg/m²), applied in 2 or 3 layers.

Cleaning

- Clean tools and equipment with a solvent.

Presentation

Metal containers of 55.12 lb (25 kg).

Colors

Gray (RAL 7038). For other colors, please consult availability with the commercial department.

Container Stability

12 months in a dry place between 41°F to 77°F / 5 °C a 25 °C.

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
Hardness	Shore A / 80
Tensile strength at 23°C	1305 psi (9 N/mm ²)
Elasticity percentage at 23°C	>600%
Thermal resistance (100 days at 80°C)	Pass
QUV Weathering Resistance Test	Passes 2000h
Service temperature	-40°F to +194°F (-40°C to +90°C)
Shock temperature	392°F (200°C)

Technical data of the liquid product

95% dry matter in Xylol

CONCEPTS	RESULTS
Viscosidad	1000-3000 cP (1000-3000 mPa·s)
Peso Específico	81.2-87.4 lb/ft ³ (1.3-1.4 g/cm ³)
Repintado	24 Horas
Secado al tacto a 77°F & 55% RH	6-12 Horas