

NEXA PU W 2K

The two-component water-based liquid membrane of totally aliphatic and thixotropic polyurethane for waterproofing and protection

Description:

NEXA PU W 2K is a two-component water-based polyurethane product with exceptional results in various applications. It is easy to apply on both horizontal and vertical surfaces, forming a 100% aliphatic, elastic, joint-free waterproof membrane with good chemical resistance. Apply with a roller, brush, or airless sprayer in 1 or 2 coats, reinforced with EPDM tape and polyester fabric for specific points.

Approved Uses

Waterproofing and protection of:

- Polyurethane foam.
- Roofs.
- Lightweight metal or fiber-cement roofs.
- Applications under tiles, such as in wet areas.

Supported Substrates

- Concrete, fiber-cement, cement tiles, wood, rusted metal, galvanized steel. For other substrates, contact technical support.

Limitations:

- Not recommended for damaged substrates.
- Do not apply in rainy or humid weather conditions.

Advantages

- Water-based product.
- Easy to apply and repair.
- Thixotropic.
- Excellent abrasion resistance.
- Continuous, elastic membrane without joints.
- Ability to bridge cracks.
- Great resistance to ponding water.
- Allows water vapor transmission: The membrane breathes, preventing water accumulation beneath it.
- Excellent insulation against environmental elements and solar exposure (UV). The white color serves as a solar reflector, effectively lowering the interior temperature of the building.
- Easy product coloring with almost all pigment pastes available in regular hardware stores.

Application

- Clean the substrate with pressurized water if possible. Remove oils, greases, and contaminating wax- es. Eliminate loose particles, and fungi, and also cure membranes, and even out irregular or defective sub-states.
- Can be applied on concrete, fiber-cement, cement tiles, wood, and galvanized steel. Contact the technical department for other substrates.
- Apply with a roller, brush, or airless spray gun in 2 coats.



- Requirements for concrete substrate:
Hardness: R28 = 2,176 psi
Moisture: W <10%
Temperature: 41-95°F
Relative humidity: <85%
- Suitable primers include NEXA PRIMER EPOX W or NEXA PRIMER PU 2K, depending on the substrate. Please contact our technical department for advice on the best option and apply the chosen primer according to the specifications in the technical data sheet.
- Mix gently with a low-speed electric stirrer (300 rpm). Add the second component and continue mixing for a few minutes. Although not necessary, the material can be diluted with 5-10% water.
- The product tends to be reinforced with EPDM tape reinforced with polyester fabric for specific points such as angles, expansion joints, active cracks, and insulation joints.
- Once the container is opened, we recommend using the entire content.

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WATERPROOFING AND PROTECTION

Cleaning

- Clean tools and equipment immediately with water.

Presentation

- 5.51 lbs Component B + 0.05 lbs Component A
- 26.46 lbs Component B + 0.26 lbs Component A

Colors

White.

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	-5 °F to 195 °F
Shore A Hardness	75-85
Tensile Strenght at 73°F	1000 -12000 psi
Elasticity percentage at 73°F	>300%
H2O absorption	<4%
QUV Accelerated Weathering Test (4h UV, at 140°F (UVB-Lamps) & 4h COND at 120°F)	Passed 2,000 hours
5% Sodium Hypochlorite (10 days at 120°F)	ok
HCl 1N, PH=0,5 (10 days at 77°F)	ok
5% Isopropyl Alcohol	No permanent swelling
15% KOH (10 days at 77°F)	ok
5% Sulfuric Acid (10 days at 77°F)	ok
10% Orthophosphoric Acid (10 days at 77°F)	ok

Technical data of the liquid product

CONCEPTS	RESULTS
Viscosity	4,000-5,000 cSt
Specific weight	0.04-0.05 lb/in ³
Required application temperature	>41 °F



*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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