NEXA PU POTABLE

Thixotropic polyurethane liquid membrane with potability certification

WATERPROOFING AND PROTECTION

Description:

Thixotropic polyurethane liquid membrane for waterproofing and protection. A bicomponent product that forms a continuous, elastic membrane with excellent properties. It is a 100% dry matter product with a potability certificate for permanent contact with drinking water.

Approved Uses

Waterproofing and protection of:

- Retention tanks (Water tanks and irrigation systems...).
- Drinking water tanks.

Supported Substrates

Concrete, cement, and metal tanks...

Limitations

- Not suitable for application in swimming pools or reservoirs with treated water.
- The product may yellow, but it does not affect the waterproofing properties.

Advantages

- Product with a certificate of potability for application in contact with drinking water.
- Solvent-free product, ideal for application in enclosed areas.
- Excellent adhesion.
- Thixotropic (does not sag in vertical applications).
- Adapts to any surface shape.
- Easy detection and repair of ruptures.
- Excellent resistance to extreme temperatures (–40°F to +194°F / –40°C to +90°C).
- Suitable for continuous contact with water, hydrolysis, and microorganisms.
- High chemical resistance.
- Availability of primers and sealing products.

Application

- Requires a smooth, clean, dry surface without residual moisture and as solid as possible.
- In underground tanks with negative pressure or back pressure, apply NEXA PRIMER EPOX W as a primer (it creates a vapor barrier from 0.11 lb/ft² / 0.5 kg/m², depending on the porosity of the substrate). It is advisable to test the condition of the substrate. Other primers are available; please contact the technical department for advice according to the substrate and final use.
- 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).
- Best mixing the contents with a low-speed electric mixer.
- Pot life: 30 minutes at 68°F (20°C).
- Apply with a roller or brush.
- Recoating time is 6 to 24 hours.
- Recoating should be done before 48 hours.
- We recommend contacting the technical department for advice according to the substrate and intended use.

Consumption

- Total consumption of 0.31 lb/ft² (1.5 kg/m²), applied in 2 coats.

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Presentation

Containers of 19.8 lb (9 kg):

- Component A: 3.3 lb (1.5 kg).
- Component B: 16.5 lb (7.5 kg).

Colors

Milky white.

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 Liquid Product

CONCEPTS	RESULTS
Viscosity of the mixture	10,000 cP / 10 P (poise).
Specific Weight (Component A)	76.2 lb/ft³ (1.22 g/cm³)
Specific Weight (Component B)	85.5 lb/ft³ (1.37 g/cm³)
Solids Content (Component A)	100%
Solids Content (Component B)	100%
Mixing Ratio	1 part Component A to 5 parts Component B

Technical Data of the Cured Membrane

CONCEPTS	RESULTS
Service temperature	–40°F to +194°F (–40°C to +90°C)
Hardness	Shore D / >40
Elongation at break	>100%
Tensile strength at 73.4°F (23°C)	2845 psi (200 kg/cm²)
Water absorption	Apto
Pot life at 77°F (25°C)	20-30 min.
Adhesion to concrete	284.5 psi (>20 kg/cm²)

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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