

NEXA UV PROTECTIVE W

Water-based polyurethane coating, bicomponent, aliphatic, and satin finish

Description:

Two-component, water-based, and aliphatic polyurethane with exceptional properties for a variety of applications. It is specially designed as a sealing layer to protect both epoxy and polyurethane self-leveling coatings. Exhibits excellent resistance to UV, chemicals, water, and abrasion. The product has high stain resistance and can be easily pigmented with water-based pigment, adding between 5-10% by weight depending on the design coverage. Application is done with a roller, with an approximate consumption of 0.03-0.06 lb/ft² (150-300 g/m²) in a minimum of two coats.

Approved Uses

Waterproofing and protection of:

- As a finish for waterproofing and decoration in self-leveling systems (enhances resistance to abrasion and UV if pigmented), suitable for polyurethane and epoxy-based systems.
- Final protective layer for parking lots.
- Treatment, decoration, and protection of floors and industrial surfaces.
- Concrete sealer.

Supported Substrates

Concrete, cement mortar, micro cement, epoxy self-leveling, and polyurethanes.

For other substrates, we recommend conducting tests to verify adhesion.

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

Limitations

- Make sure to have proper ventilation during indoor application and for the following 12-24 hours, depending on environmental factors.
- Do not exceed the maximum consumption as it may result in whitish discoloration.
- Avoid the formation of product puddles.
- For chemical applications, seek guidance from the technical department.
- Improper treatment of cracks and specific areas may diminish the longevity of the waterproofing.

Advantages

- Water-based product, environmentally friendly.
- Fast and easy application.
- Rapid curing.
- Excellent UV resistance.
- Easy to pigment with water-based pigment paste concentrate.
- Ready to use. But it is dilutable in water.
- Excellent adhesion between layers.
- Good abrasion resistance
- Good mechanical resistance.
- Possibility of anti-slip finish.
- 0 VOC.

Application

- Clean the substrate with high-pressure water if possible. The substrate should be free of grease and dust, leveled, and porous.
- Before applying, confirm that the temperature and humidity requirements are as needed:
Substrate temperature: >46.4 °F to < 86 °F (>8 °C a <30 °C.)
Relative humidity: <80 %
Compressive strength: 2175 psi (153 kg/cm²)
Concrete tensile strength: 145 psi (10.2 kg/cm²)
- It is important to monitor the dew point to prevent condensation and avoid whitening spots on the coating.
- A porous concrete substrate without laitance or curing liquids is required.
- Primer: No primer is needed for epoxy or polyurethane self-leveling systems. For protecting micro-cement, concrete, or mortar, we recommend a layer of NEXA UV PROTECTIVE W Antistain at 0.02 lb/ft² (100 g/m²) as a primer to improve substrate penetration.
- Pot life is approximately 30 minutes at +77°F (25°C).
- Mix Component B in the container with a low-speed electric mixer (300-400 rpm). Then add Component A and continue mixing for several minutes until the product is homogeneous.
- Avoid excessive mixing, as it may cause entrapped air bubbles.
- Apply with a brush, roller, or airless spray. Re-coating should occur once previous layers are dry, approximately after 1-2 hours. The product dries relatively quickly, so additional coating beyond the initial layer may cause application defects if layer intervals are not respected.
 - Touch dry: 1-2 hours.
 - Pedestrian traffic: 8 hours.
 - Light traffic: 2 days.
 - Full cure: 7 days

(Approximate temperature 77°F / 25°C and 55% RH).

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- Times are approximate and can be affected by environmental conditions, especially humidity and temperature changes.
- Adequate ventilation must be ensured to remove excess moisture during curing, particularly in the first 12 hours after application.
- For abrasive, anti-slip finishes, corundum should be added to the product at a 4-10% ratio. For non-abrasive slip resistance, add an anti-slip agent in the same proportion.
- To maintain the appearance of the pavement after application, remove any spills immediately. Clean the pavement regularly using rotary brushes, low-pressure cleaners, vacuums, and appropriate detergents and waxes.

Consumption

- Apply in thin layers. The final minimum consumption is 0.03-0.05 lb/ft² (150-250 g/m²) in two coats, depending on the roughness of the substrate.

Cleaning

- Tools should be cleaned immediately after use with water.
- Fully cured material can only be removed by mechanical means.

Presentation

Lots of 8.8 lbs. (4 kg) Transparent

A 1.473 lbs. (0.67 kg) Transparent color

B 7.336 lbs. (3.33 kg) (Whitish color)

Lots of 9.48 lbs. (4.3 kg) Pigmented

A 1.473 lbs. (0.67 kg) Transparent color

B 8.0 lbs (3.63 kg) (approx. Depending on covering power) Color according to RAL.

Lots of 2.12 lbs. (0.96 kg) Transparent

A 0.352 lbs. (0.16 kg) Whitish color

B 1.76 lbs. (0.8 kg) Whitish color.

Lots of 2.34 lbs. (1.06 kg) Pigmented

A 0.352 lbs. (0.16 kg) Transparent color

B 1.98 lbs (0.9 kg) (approx. Depending on covering power) Color according to RAL.

Colors

Transparent product, either unpigmented or pigmented according to the RAL color chart.

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
Support temperature	>46.4°F (8°C) / <86°F (30°C)
Room temperature	>46.4°F (8°C) / <86°F (30°C)
Relative humidity	<80 %
Substrate humidity	Accepts moisture
Taber abrasion resistance CS-17, 1000 cycles, 2.205 libras (1 kg)	0.0035 oz (0.0992 g)
QUV Weathering Resistance Test (4hr UV exposure at 140°F / 60°C with UVB lamp & 4hr COND at 122°F / 50°C)	Passes 2000h

Technical data of the liquid product

CONCEPTS	RESULTS
Viscosity	2000-4000 cP (2000-4000 mPa·s)
Density at 68 °F (20°C)	62.43 lb/ft ³ (1 g/cm ³)
Repainting at 77 °F (25°C)	2 Hours
Surface dry time at 77 °F (25°C) and 55% RH	7 days
Dry to touch	1-2 hours
Required application temperature	>41°F / >5°C
Mixing ratio by weight	C.A. 83,3 % C.B. 16,7 %
VOC	0



*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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