

NEXA PROTECTIVE

Solvent-based aliphatic polyurethane coating with a glossy finish

Description:

Solvent-based aliphatic polyurethane coating for the treatment, decoration, and protection of floors with a glossy finish. A single-component product that cures with ambient humidity, forming a hard, strong, continuous film with excellent mechanical and adhesive properties, making it resistant to weathering, extreme temperatures, UV rays, and chemicals.

Approved Uses

- Finishing for the protection and decoration of floors, increasing resistance to abrasion and UV rays if pigmented, providing a pigmentable finish.
- Protection of wood, stones, and marble.
- Enhancing resistance to abrasion and UV rays.

Approved Substrates

Concrete, cement mortar, ceramic, synthetic coatings (polyurethane and epoxy types), construction materials such as stones, marble, bricks, wood, and metals like iron, steel, and aluminum.

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

For particularities or special substrate conditions, consult the technical department.

Advantages

- Quick and easy application.
- Fast curing.
- Excellent adhesion to almost all types of surfaces.
- 100% aliphatic product that does not yellow, change tone, or chalk.
- Excellent resistance to weathering.
- Exceptional resistance to extreme temperatures ranging from -40°F to $+176^{\circ}\text{F}$ (-40°C to $+80^{\circ}\text{C}$).
- Maximum shock temperature: 392°F (200°C).
- Liquid product that adapts to any substrate shape.
- High resistance to abrasion, tension, and tearing.
- Excellent chemical resistance.

Limitations

- Do not exceed the maximum consumption, as it may affect adhesion and durability.
- Apply in very thin layers to avoid bubble formation.
- Do not recoat after 24 hours.
- In enclosed spaces, ensure proper ventilation during application and for 24 hours afterward.
- Avoid forming puddles of the product.
- From 176°F (80°C), NEXA PROTECTIVE may yellow, peel, or soften.
- If applied transparent (non-pigmented) and exposed to UV, ensure that the substrate meets the required UV resistance.

- Not recommended for waterproofing swimming pools in contact with chemically treated water.
- For chemical applications, consult the technical department.
- Once opened, it is recommended to use the entire container.
- Incorrect treatment of cracks and critical points may reduce the lifespan of the floor.

Application

- The substrate must be clean, free of grease and dust, leveled, porous, and dry.
- Before applying, confirm that the temperature and humidity requirements are met (refer to the table).
- It is important to monitor the dew point to avoid condensation and whitening in the coating.
- A porous concrete substrate is required, free of laitance and curing agents.
- Compression resistance: 2175.57 psi (15 N/mm²).
- Concrete tensile strength: 145.04 psi (1 N/mm²).
- In case of doubt, perform a test before application.
- The product is ready to use. Dilution is not recommended.
- Mix the product before use with a low-speed electric mixer (300-400 rpm) to avoid air entrapment in the mixture.
- If used as paint, add up to 10% of NEXA COATINGS pigment pastes and mix for 1-2 minutes until a homogeneous product is achieved.
- If used as a sealer, apply NEXA UV PROTECTIVE.
- Over-mixing may cause air bubbles to form.
- Application tools: roller, brush, or airless sprayer.
- Recoating should be done once previous layers are dry, approximately 6-24 hours later. Do not recoat after 48 hours.
Touch dry: 4-6 hours.
Pedestrian traffic: 24 hours.
Light traffic: 2 days.
Full cure: 7 days.

(At approximately 77°F / 25°C and 55% RH.)

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- These times are approximate and can be affected by changes in environmental conditions, especially humidity and temperature.
- Proper ventilation is required to remove excess solvent during curing, at least for the next 24 hours after application.
- Finishes
Glossy finish.
Transparent without pigmentation.
Pigmented according to the RAL chart. Anti-slip:
For anti-slip abrasive finishes, add corundum to the product at a rate of 0.0205-0.0819 lb/ft² (0.10-0.4 kg/m²). For non-abrasive anti-slip finishes, add anti-slip agent in the same proportion.
- To maintain the appearance of the pavement after application, all spills must be cleaned immediately after they occur. The pavement should be cleaned regularly using rotary brushes, high-pressure cleaners, vacuums, and appropriate detergents and waxes.

Consumption

- Apply in thin layers, with an approximate consumption of 0.02 lb/ft² (100 g/m²) per coat.

Cleaning

- Clean tools immediately after use with solvent.
- Fully cured material can only be removed mechanically.

Presentation

- 44.09 lb (20 kg) and 11.02 lb (5 kg) batches.

Container Stability

12 months in a dry place between (5°C and 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 (Mixture)

CONCEPTS	RESULTS
Chemical base	Solvent-based polyurethane
Density	59.3 lb/ft ³ (0.95 g/cm ³)
Viscosity at 77 °F (25 °C)	100 cP
Recoat Time at 77 °F (25 °C)	6-24 hours
Touch Drying Time	4-6 hours
Full Cure	7 days

Technical Data of the Product

CONCEPTS	RESULTS
Water vapor transmission	0.164 lb/ft ² -hr (0.8 g/m ² -hr)
Weathering resistance	Approved after 2000 hours
Chemical resistance	Resistant to sodium hypochlorite (5%)
Shore Hardness (D)	>60
Water absorption	<1%

Technical Data of the Cured Product

CONCEPTS	RESULTS
Substrate temperature	>50 °F to <86 °F (>10 °C to <30 °C)
Ambient temperature	>50 °F to <86 °F (>10 °C to <30 °C)
Service temperature	-40 °F to +176 °F (-40 °C to +80 °C)
Maximum shock temperature	392 °F (200 °C)
Relative humidity	<75%
Substrate moisture	<4%
Elongation at break (73.4 °F)	>50%
Wear resistance	80 µm