NEXA PROTECTIVE MATTE

Low-viscosity, solvent-based, aliphatic, transparent matte polyurethane coating

PAINTS AND SEALERS

Description:

Low-viscosity, solvent-based, single-component aliphatic polyurethane coating for protection and waterproofing. This single-component product cures with ambient humidity, forming a hard, strong, continuous film with excellent mechanical and adhesive properties. It is 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 when pigmented.
- Protection for concrete, stones, and marble.
- Provides a matte finish to NEXA PU T and other aliphatic sealers and varnishes.
- Water-repellent treatment for porous stones, mosaics, or marbles.

Approved Substrates

Concrete, cement mortar, ceramics, synthetic coatings (polyurethane types), construction materials such as stones, including low-porosity surfaces like marble or mosaics.

For other substrates, we recommend testing to verify adhesion.

For specific substrate characteristics or conditions, contact the technical department.

Advantages

- Quick and easy application.
- Fast curing.
- Matte finish.
- Excellent adhesion to almost all types of surfaces.
- 100% aliphatic product that does not yellow, change tone, or chalk.
- Excellent weather resistance.
- Outstanding resistance to extreme temperatures ranging from –40 °F to +176 °F (–40 °C to +80 °C).
- Maximum shock temperature: 392 °F (200 °C).
- Liquid product that adapts to any surface 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.
- Ensure proper ventilation during application and for 24 hours afterward in enclosed spaces.
- Avoid forming puddles of the product.
- Above 176 °F (80 °C), NEXA PROTECTIVE MATTE may yellow, peel, or soften.
- If applied transparent (non-pigmented) and exposed to UV, ensure the substrate meets UV resistance requirements.
- To enhance abrasion and UV resistance in NEXA PU CLASSIC waterproofing systems, use NEXA UV PROTECTIVE.
- 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 singular points may reduce the pavement's lifespan.

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.
- Stir the product with a low-speed electric mixer (300-400 rpm) before use to avoid air entrapment.
- If used as paint, add up to 10% of NEXA COATINGS pigment pastes and mix for 2 minutes until a homogeneous product is obtained.
- Over-mixing may cause air bubbles.
- Application tools: roller, brush, or airless sprayer.
- Recoat once the previous layers are dry, approximately 6-24 hours later. Do not recoat after 24 hours.

  Touch dry: 3-4 hours.
  Pedestrian traffic: 24 hours.
  Light traffic: 2 days.
  Full cure: 3 days.
  (At approximately 77 °F / 25 °C and 55% RH.)

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- These times are approximate and can be affected by environmental conditions, especially humidity and temperature.
- Proper ventilation is required for curing, at least for the next 24 hours.
- Finishes
  Pigmented: according to RAL chart.
  Transparent, non-pigmented.
  Anti-slip: For abrasive anti-slip finishes, add corundum to the product at 0.0205-0.0819 lb/ft² (0.1-0.4 kg/m²). For non-abrasive anti-slip finishes, add anti-slip agents 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 0.02-0.04 lb/ft² (100-200 g/m²) per coat.

Cleaning

- Tools should be cleaned immediately after use with solvent.
- Fully cured material can only be removed mechanically.

Presentation

- Batches of 44.09 lb (20 kg) and 11.02 lb (5 kg).

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

CONCEPTS	RESULTS
Chemical base	Solvent-based polyurethane
Density	56.2-59.3 lb/ft³ (0.90-0.95 g/cm³)
Viscosity at 77 °F (25 °C)	20-40 cP
Recoat Time	6-24 hours
Touch Drying Time	3-4 hours
Full Cure	3 days

Technical Data of the Membrane

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)
Shock temperature	392 °F (200 °C)
Relative humidity	<75%
Substrate moisture	<4%
Shore Hardness (D)	>60
Elongation at break (73.4 °F)	>50%
Wear resistance	40 µm

Additional Technical Data

CONCEPTS	RESULTS
Water vapor transmission	0.164 lb/ft²·hr (0.8 g/m²·hr)
Weathering resistance (QUV Test)	Approved after 2000 hours
5% Sodium hypochlorite (10 days)	No significant changes
8% Potassium hydroxide (10 days at 140 °F)	No significant changes
Water absorption	<1%

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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