NEXA FLOOR PRIMER EX01

100% solids epoxy primer and synthetic mortar binder

PRIMERS

Description:

Solvent-free epoxy blend with a cycloaliphatic amine-based hardener, suitable as an epoxy primer and binder for 100% solids synthetic mortars.

Approved Uses

- Epoxy primer
- Binder for producing heavily loaded synthetic mortars with quartz sand, suitable for:
  - Repairs.
  - Pavements over 0.12 in (3 mm) thick, troweled manually or with an appropriate power trowel.
- Filling and leveling substrates.

Approved Substrates

Concrete and cement mortar

For other substrates, testing is recommended to verify adhesion.

For specific substrate characteristics, consult the technical department.

Advantages

- Deep penetration into the substrate due to the product's high capillary activity, providing excellent anchorage for subsequent coatings.
- Good resistance to extreme temperatures: –4 °F (–20 °C) to +158 °F (+70 °C).
- Good UV and weather resistance.
- 100% solids, solvent-free, odorless.
- Good adhesion on concrete.
- Good abrasion resistance.
- Good mechanical resistance.
- Good chemical resistance.

Limitations

- Avoid forming puddles of the product.
- Exposure to UV may cause yellowing.
- The product temperature must not exceed 59 °F to 68 °F (15-20 °C), as it accelerates the reaction and shortens the pot life.
- For chemical applications, consult the technical department.
- 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).
- The substrate must have a maximum residual moisture content of 4%.
- It is important to monitor the dew point to avoid condensation and whitening in the coating.
- The concrete substrate must be porous, free of laitance, and without curing agents
- Compression resistance: 15 MPa (2175 psi)
- Concrete tensile strength: 15 MPa (2175 psi).
- In case of doubt, perform a test before application.
- The product can be diluted with Solvent by 5-10%
- Mix Component A thoroughly in its container, then add Component B, mixing for at least 2-3 minutes until a homogeneous product is achieved.
- If over-mixed, air bubbles may appear in the mixture.
- Apply using a brush, roller, or metal/rubber spreaders.
- Synthetic Mortar for 0.12–0.39 in (3-10 mm) Thickness:
  - Mix 1 part NEXA FLOOR PRIMER EX01 with 10 parts dry quartz sand in the following composition:
    - 1/3 part sand, 0.0035–0.0079 in (0.09–0.2 mm).
    - 2/3 part sand, 0.0276–0.0472 in (0.7–1.2 mm).
- Synthetic Mortar for 0.31–0.59 in (8-15 mm) Thickness:
  - Mix 1 part NEXA FLOOR PRIMER EX01 with 15 parts dry quartz sand in the following composition:
    - 5% quartz powder, 0.0002–0.0012 in (5-30 µm).
    - 10% sand, 0.0035–0.0079 in (0.09–0.2 mm).
    - 40% sand, 0.0276–0.0472 in (0.7–1.2 mm).
    - 45% sand, 0.0787–0.1378 in (2.0–3.5 mm).

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- The mortar must be mixed in a planetary mixer, adding aggregates in ascending granulometry before adding the mixed components of NEXA FLOOR PRIMER EX01.
- Protect the product from moisture, especially rain, during curing (10-12 hours). Moisture may cause surface whitening, which is purely aesthetic and does not affect the resin's curing or performance. Remove whitening before applying subsequent layers to ensure adhesion.
- Recoating should be done once previous layers are dry, approximately 12-24 hours without sanding.
- Drying Times:
  Touch dry: 6-8 hours
  Pedestrian traffic: 24 hours
  Light traffic: 2 days
  Full cure: 7 days

  (Approximate times at 77 °F (25 °C) and 55% relative humidity)

Consumption

- Approximate consumption: 0.04-0.10 lb/ft² (200-500 g/m²) per coat.
- As a binder for synthetic mortars (resin:aggregate ratio = 1:10), approximately 0.016 lb/ft² (200 g/m²) per mm thickness.

Cleaning

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

Presentation

- Batch Size: 48.5 lb (22 kg):
  - Component A: 31.04 lb (14.08 kg).
  - Component B: 17.46 lb (7.92 kg).
- Batch Size: 11.02 lb (5 kg):
  - Component A: 7.05 lb (3.2 kg).
  - Component B: 3.97 lb (1.8 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
Physical Appearance	Liquid
Mixing Ratio	Component A: 77%, Component B: 23%
Chemical Base	Epoxy
Density	1.1 g/cm³ (68.7 lb/ft³)
Solids Content	100%
Pot Life	20 minutes
Recoat Time	12-24 hours
Touch Dry Time	6-8 hours
Full Cure	7 days
VOC	0 g/L

Technical Data of the Membrane

CONCEPTS	RESULTS
Substrate Temperature	+50 °F to +104 °F (+10 °C to +40 °C)
Ambient Temperature	+50 °F to +104 °F (+10 °C to +40 °C)
Relative Humidity	<85%
Substrate Moisture	<4%
Wear Resistance	3.77 oz (107 g)
Shore Hardness (D)	84
Compression Resistance	8702 psi (60 N/mm²)
Flexural Strength	3480 psi (24 N/mm²)
Elasticity Modulus	362,594 psi (2500 N/mm²)
Adhesion Strength	362.59 psi (2.5 N/mm²), concrete failure
Water Absorption (4 days at 140 °F)	0.3% by weight

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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