

# NEXA FLOOR EPOX

Self-leveling, solvent-free, two-component epoxy flooring

## Description:

Self-leveling, solvent-free, two-component epoxy flooring with good mechanical properties and adhesion. It is ideal as a leveling layer and base coat in multi-layer systems for interior floors.

The product temperature should not exceed 77 °F (25 °C), as this accelerates the reaction and shortens the mixture's pot life. The optimal working temperature is between 50–68 °F (10–20 °C). Lower temperatures may cause leveling issues, and higher temperatures may affect layer overlaps.

## Approved Uses

Treatment, decoration, and protection of pavements, floors, and rehabilitation of:

- Industrial floors.
- Food-grade floors.
- Chemical floors.
- Vehicular floors (light traffic).
- Shopping centers.
- Refrigeration chambers.
- Others.

## Approved Substrates

Concrete and cement mortar.

For other substrates, testing is recommended to verify adhesion.

For specific substrate conditions, consult the technical department.

## Advantages

- Solvent-free.
- Can be applied in thin layers without sand addition.
- Good adhesion to almost all types of surfaces.
- Good resistance to abrasion and impacts.
- Good mechanical and chemical resistance.
- Fully impermeable and resistant to permanent water contact, hydrolysis, and microorganisms.
- Can be applied as a coating for cove bases and vertical supports (apply in thin layers or add a thixotropic agent at 0.3 to 0.5% of the total weight of the NEXA FLOOR EPOX coating).

## Limitations

- Exposure to UV may cause yellowing. It is recommended to finish with compatible paints.
- For chemical applications, consult the technical department.
- Improper 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.
- The product must be protected from moisture, especially rain, during the curing process (first 24 hours). Moisture may cause surface whitening, which is purely aesthetic and does not affect the coating's performance but must be removed before applying additional layers.
- A porous concrete substrate, free of laitance and curing agents, is required.
- Compression resistance: 2175.57 psi (15 N/mm<sup>2</sup>).
- Concrete tensile strength: 145.04 psi (1 N/mm<sup>2</sup>).
- In case of doubt, perform a test before application.
- If substrate conditions differ from the required specifications, consult the technical department.
- For a stratified roller-applied system: Prime the surface with NEXA FLOOR PRIMER EX01. Apply one layer of pure NEXA FLOOR EPOX. For an anti-slip surface, sprinkle dry quartz sand of the desired granulometry between the penultimate and final layers to achieve the desired roughness.
- For a system without sand addition: Prime the surface with NEXA FLOOR PRIMER EX01 based on substrate conditions. Apply a 0.0591-0.0787 in (1.5-2 mm) layer of NEXA FLOOR EPOX using a notched trowel. To release air bubbles from the resin during application, use a spiked roller.
- For a system with sand addition: Prime the surface with NEXA FLOOR PRIMER EX01. Apply a self-leveling mortar layer of approximately 0.0787 in (2 mm) thick, composed of 1 part by weight of NEXA FLOOR EPOX and 0.5 parts by weight of dry quartz sand with a granulometry of 0.0079-0.0157 in (0.2-0.4 mm). Use a spiked roller to release air bubbles after spreading the mortar.
- The two components must be mixed using a low-speed electric mixer (300-400 rpm) to avoid air entrapment in the mixture.

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SELF-LEVELLING FLOORING

- Mix Component A thoroughly in its container, then add Component B, mixing for a minimum of 2-3 minutes until a homogeneous product is achieved.
- If over-mixed, air bubbles may appear in the mixture.
- Do not dilute the product; it is ready to use.
- Pot life is approximately 20 minutes at 77 °F (25 °C).
- Apply using a roller (for thin coats), a flat trowel (for leveling layers), or a notched trowel (as a final self-leveling coat).
- Recoating should be done once previous layers are dry, approximately 16-48 hours.  
Touch dry 6 hours  
Pedestrian traffic 24 hours  
Light traffic 3 days  
Full cure 7 days  
(Temperatura aproximada 77°F (25 °C) y 55% HR.)
- Times are approximate and depend on environmental conditions, particularly temperature and humidity.
- Finishes:  
Smooth Finish: Apply NEXA FLOOR EPOX using a notched trowel and spiked roller.  
Rough Finish: Apply NEXA FLOOR EPOX with a rubber trowel to partially cover the aggregate, followed by painting with NEXA FLOOR EPOX. If the aggregate is too rough, a second layer can be applied.

## Consumption

- Pure self-leveling system 0.31 lb/ft<sup>2</sup> (1.5 kg/m<sup>2</sup>) per mm.
- System with sand addition 0.37 lb/ft<sup>2</sup> (1.8 kg/m<sup>2</sup>) per mm.

## Cleaning

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

## Presentation

- 11.02 lb (5 kg):
  - Component A: 9.15 lb (4.15 kg), RAL color.
  - Component B: 1.87 lb (0.85 kg), transparent.
- 55.12 lb (25 kg):
  - Component A: 45.76 lb (20.75 kg), RAL color.
  - Component B: 9.37 lb (4.25 kg), transparent.

## 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               | 83% Component A / 17% Component B                 |
| Chemical Base              | Epoxy   |
| Density                    | 90.6 lb/ft <sup>3</sup> (1.45 g/cm <sup>3</sup> ) |
| Solids Content             | 99%   |
| Pot Life                   | 20 minutes  |
| Touch Dry Time             | 6 hours   |
| Recoat Time                | 16-48 hours                                       |
| Full Cure                  | 7 days  |
| Minimum Curing Temperature | 46.4 °F (8 °C)                                    |

## Technical Data of the Membrane

| CONCEPTS               | RESULTS                                |
|------------------------|--|
| Service Temperature    | -4 °F to +176 °F<br>(-20 °C to +80 °C) |
| Compression Resistance | 6527.1 psi (45 N/mm <sup>2</sup> )     |
| Abrasion Resistance    | 107 g                                  |
| Wear Resistance        | 40 µm                                  |
| Shore Hardness (D)     | >84                                    |
| Flexural Strength      | 4351 psi (30 N/mm <sup>2</sup> )       |
| Adhesion Strength      | 420.78 psi (2.9 N/mm <sup>2</sup> )    |

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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