

Neopox Lining

Self-Leveling Epoxy Flooring

DESCRIPTION

Neopox Lining is a two-component solvent-free epoxy resin and hardener with great self-leveling properties, specially formulated with specific additives, creating a seamless flooring system with good chemical and abrasion resistance.

FEATURE

- Great Adhesion with concrete and steel surfaces.
- Excellent penetration to the porous surface.
- Fast curing, easy to apply.

USAGE

Area of application includes:

- Building, apartment, commercial, and shopping flooring
- Car park.
- Heavy traffic coating for Machinery and/or Chemical Plant
- Clean Rooms like Laboratory, hospital unit, and kitchen area

PROPERTIES

Color	Desirable
Density, g/mL	Base: 1.70 ± 0.10 Hardener: 0.97 ± 0.05 Mixed: 1.20 ± 0.10
Viscosity, cPs	700 ± 100 (mixed)
Mixing Ratio	Base: Hardener 6: 1
Pot Life at 25°C	Within 20 minutes
Tack free Time at 20°C	Within 6 hours
Drying Time at 25°C	Within 48 hours
Adhesion Strength	More than 1.5 MPa
Tensile Strength	More than 20 MPa
Compressive Strength	More than 80 MPa
Flexural strength	More than 40 MPa
Application Thickness (recommendation)	1.0 – 3.0 mm DFT

INSTRUCTION OF USE

1. Preparation

Long term durability of a flooring system is determined by the adhesive bond achieved between waterproofing material and substrate. Correct and proper substrate preparation before body coat application is the most important step.

A. New Concrete

This concrete must be aged for 28 days, substrate moisture content must be less than 6%, and minimum grade is RC30 of BS 8500-2: 2002 standard, should not contain water repellent agent, and Pull-off strength should exceed 1.5 MPa. The substrate should be sound and free from contamination such as oil and grease, mortar, and paint splashes, or curing compound residues. Excessive laitance can be removed using mechanical methods.

B. Old Concrete

Substrate moisture content must be less than 6%, minimum grade is RC30 of BS 8500-2: 2002 standard, should not contain water repellent agent, and Pull-off strength should exceed 1.5 MPa. A sound, the clean substrate is essential to achieve maximum adhesion. As for the new concrete surface, removal of laitance using mechanical methods is

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preferable. Oil and grease penetration should be removed using a proprietary chemical degreaser or by hot compressed air treatment. Any damaged areas or surface irregularities should be repaired using one of the Epoxy Putty.

2. Excessive dust, debris, and other contaminant material should be removed using a high-pressure blower or industrial vacuum cleaner.

3. Priming

The primer must be applied according to the Technical Data (see **Neopox #1400 or Neopox #1400MA** Technical Data).

Neopox Lining should be applied when **Neopox #1400 or Neopox #1400MA** achieved a tacky-free state (60 minutes at 25 °C).

4. Placing

Mix thoroughly **Neopox Lining Base and Neopox Lining Hardener** using a medium speed (300 – 500 RPM) mixer with a spiral-shaped steel stirrer for 3 minutes to achieve consistent quality and color.

Apply thoroughly onto the primed surface using a brush; roller or squeegee application depends on application condition.

CLEANING	Tools and equipment just can be cleaned with acetone or thinner immediately after use. Cured products only can be removed using mechanical action.
PACKAGING	24.5 Kg per set <ul style="list-style-type: none"> • Part A: 21 kg per pail of Base Part • Part B: 3.5 kg per pail of Hardener Part 1.10 - 1.20 Kg/m ² per mm thickness consumption (depends on surface profile).
STORAGE	Store in the dry conditions between 5 – 30 °C. Put away from sources of heat and naked flames in the original, unopened packs. If stored at high temperatures the shelf life may be reduced. Neopox Lining should be protected from frost.
SHELF LIFE	1 Year in unopened and undamaged packaging.
IMPORTANT NOTES	Application condition <ol style="list-style-type: none"> 1. Relative Humidity (RH) less than 85%. 2. Surface moisture less than 6%. 3. Ambient Temperature 5 – 35 °C. It must be noted that Neopox Lining is part of the Epoxy Flooring Systems Application; it may need other products to achieve the full Epoxy Flooring Systems.
SAFETY MEASURES	Impervious gloves and barrier cream should be used when handling these products. Eye protection should be worn. In case of contact with eyes, wash thoroughly with plenty of water and seek medical advice if symptoms persist. If contact with skin occurs, it must be removed before curing takes place. Wash off with an industrial skin clearer followed by plenty of soap and water. Do not use solvent. Ensure adequate ventilation when using these products.

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DISPOSAL

Spillage of products should be absorbed onto the earth, sand, or other inert material and transferred to a suitable vessel. Disposal of such spillages or empty packaging should be by local waste disposal regulations. For further information, refer to the Product Material Safety Data Sheet.
