

KOVA Epoxy floor eco decor

Epoxy water dispersion material for installation of bulk floors

Characteristics

A three-component material consisting of an epoxy resin, filler and a base (dispersion of pigments and a water-based epoxy hardener).

Features

Application capability:

- on a dump surface;
- on fresh concrete (7 days after laying concrete);
- on a concrete without waterproofing;
- a layer up to 5 mm thick.

The coating has:

- low curing temperature 5 °C;
- increased heat resistance;
- vapor permeability;
- lack of organic solvents;
- high wear resistance and resistance to shock and vibration loads;
- resistance to temperature differences;
- good chemical resistance and resistance to yellowing from exposure to sunlight.

Application area

For arrangement of bulk floors at the following sites:

- enterprises of the chemical, pharmaceutical, food and tobacco industries;
- trade and storage facilities;
- medical institutions;
- multi-storey parking lots, garages, car repair shops, aircraft hangars;
- airport terminals;
- administrative and office premises;
- enterprises of mechanical engineering, metalworking, energy, light and pulp and paper industry.

Storage

Store in the manufacturer's original sealed containers at temperature from 5 °C to 35 °C. Protect from moisture, direct sunlight and freezing.

The shelf life is 12 months.

Storage over the date specified on the label does not necessarily mean the product is unusable. In case if store more please check the properties of product before use.

Packing

Plastic buckets with a capacity of up to 20 L.

Safety instructions

Application does not require special safety measures. Detailed instructions are given in the relevant product safety data sheet. It can be provided upon request from the Unisil Hungary Kft or printed from the website Unisil Hungary Kft www.unisil.eu.

How to use

Surface preparation:

- thoroughly polish the surface of the base using a mosaic or angle grinders with diamond cups;
- remove a dust with an industrial Hoover;
- prepared concrete surface should be smooth, flat, without grease stains and a visible film of moisture.

Material preparation: Thoroughly mix the base (component C) and enter the epoxy component (component D) in amount of 32 weight parts of component D for 100 weight parts of component C and thoroughly mix again. Then add the filler (component F) into obtained composition in amount of 180 weight parts for 100 weight parts of composition, and thoroughly mix again. Use prepared composition within 45 minutes since the moment of preparation at temperature up to 20 °C. The higher temperature, the less viability term of prepared composition.

Application of decorative layer: Before applying decorative layer, KOVA Epoxy floor eco primer must be applied according to the instructions for its use.

It is necessary to determine in advance the configuration of the application so that the perimeter of the filled areas throughout the application period does not exceed the critical value. Namely: a fresh portion of liquid floor must be joined to the boundary of the previous portion not later than 40 minutes after the start of application of previous portion, otherwise the boundary between portions applied in different periods will be visible. If break in the work exceeds 40 minutes please limit application area with masking tape beforehand. In this case, the boundary between the different portions will be more even. It is recommended to remove the masking tape not later than 8 hours after the application of liquid coating, otherwise later this will be problematic.

Apply prepared working composition by strip up to 1 m by pouring method and smooth the surface using a squeegee and spatula. Regulate the layer thickness with a squeegee. After smoothing (10 minutes, but not later than 45 minutes) thoroughly and evenly treat the surface with a spiked roller to remove air bubbles from the surface. Work in special spiked shoes (stupas).

The consumption of the material for thickness of 1mm is 1,4 kg/m². The minimal consumption of the material for even coating is 2,8 kg/m². The application of the layer thickness up to 5 mm is possible for one time.

Curing time of coating at 20 °C and relative humidity 60% is 24 hours, at lower temperatures, drying slows down and may take longer.

Ambient temperature, of surface and applied product should be between 5 °C and 30 °C, and the relative humidity should not exceed 80 %.

Floors are ready to use after:

- 3 days for walking load;
- 7 days for full mechanical load.

Product specification

Appearance of the coating	Matte coating
Viability time at (20±2) °C, min, at least	45
Fire resistance	BS476: Part 7 surface of flame: Class 1 (indicative)
Thermal resistance without simultaneous exposure to corrosive environments mechanical loads: <ul style="list-style-type: none">• permanent• shot-term (7 days)• short-term (12 hours)• short-term (1 hour)	to +60°C (dry heat) to +80°C (dry heat) to +100°C (dry heat) to +80°C (moist heat-steam cleaning)
Vapour permeability	ASTM: E96: 90 – 20 g/m ² /mm/24 hr
Hardness of surface	180 secs. Koenig Hardness test
Abrasion resistance	Taber Abrader: 70 mg loss per 1000 cycles (1 kg load using CS10 wheels)
Slip resistance value (SRV)	TRRL Pendulum slip test Dry>40
Adhesive strength, not less	25 N/mm ² Greater than cohesive strength of concrete. >1,5 MPa

For more information please contact your nearest representative of Unisil Hungary Kft.

LIMITED WARRANTY**PLEASE READ CAREFULLY**

The information contained herein is accurate, but it does not relieve the customer from the control of each batch of products supplied. Since the conditions and methods of use of our products are beyond our control, the recommendations contained in this document should be updated by the client providing preliminary tests. Recommendations for use should not be construed as a guarantee of product suitability for a particular purpose. Unisil Hungary Kft warrants only that the product meets its specifications in effect at the time of delivery.