

Product Overview

It is a solvent-free, epoxy resin-based, colorless or colored, low-viscosity flooring coating material.

Application Domains

- Cuisine, Research Facilities,
- Automotive Services
- Parking facilities,
- Chemical and Pharmaceutical Sector
- Animal Farms
- Manufacturing Facilities, Administrative Offices,
- Stores,
- Business Hubs
- Commercial kitchens,

Technical Specifications

	10° C	20° C	30° C
Container dwell time	90 minutes	50 minutes	25 minutes
New coat application period	25-35 seconds	12-18 hours	7-11 hours
Initial curing duration	30 seconds	15 seconds	8 seconds
Complete hardening	10 days	7 days	5 days
Walking Duration	two days later		
Flexural Strength (DIN 1164)	7 days	62 N/mm ²	+23 °C
Compressive Strength (ASTM D 695)	7 days	98 N/mm ²	+23 °C
Tensile Strength		4,3±0,3 N/mm ²	
Shore D Hardness		85 ±3	
Chemical Resistance	Formaldehyde, Potassium Hydroxide, Sodium Hydroxide 30%		Citric Acid 30 Percent

Chemical resistance values may fluctuate based on the color pigment utilized in the product.

The information presented in this technical data sheet is derived from the results of conducted tests. The user assumes full responsibility for the proper application of our original product. Our company is solely accountable for the product's quality. This data sheet replaces the information found in the prior version. Our company retains the right to amend any information within this data sheet.

Advantages

- It serves as an intermediate layer stripping material in flooring systems.
- It is simple to apply and can be utilized without the need for grouting.
- It exhibits resistance to alkalis, oil, grease, and waste.
- It inhibits dust formation in reinforced concrete coatings, enhances their durability, and ensures their longevity.
- It is a coating that is resistant to mechanical impacts and the wear and tear that may result from friction or chemical effects.
- There is no detriment in utilizing it in areas where hygiene is essential.
- Its adhesion strength is exceptionally high.

Surface Preparation

Mechanical surface preparation, utilizing methods such as blastrack and rotatiger, is essential. The resultant dust layer must be removed with industrial vacuum cleaners, ensuring that the application surface is sound, dry, and clean. All dust, oil, paraffin, bitumen, and other contaminants that could hinder adhesion must be eliminated, along with any loose particles such as mortar and plaster. The concrete must possess a minimum quality of C20/25 and be at least 28 days old. The tensile strength of the reinforced concrete surface should be 1.5 N/mm², with a moisture content of 4% and a surface temperature of +8 °C. The success of the application is contingent upon meticulous surface preparation and the appropriate use of materials. Abrasion and roughening processes are executed using the method chosen based on the surface condition. The surface is rendered completely dust-free with an industrial vacuum cleaner, preparing it for application. Following surface preparation, all surfaces are primed with EP-8101 Solvent-Free Epoxy Primer.



Mixture

In three-component formulations, the mixture is calibrated according to the specified mixing ratio (Component A: resin, Component B: hardener, Component C: silica sand). The ready-to-use material is achieved by thoroughly mechanically blending these three components. All of Component B is introduced into Component A simultaneously, and the mixture should be combined using a low-speed mixer (300-400 rpm) with the appropriate attachment until a homogeneous consistency is attained. To ensure uniform distribution of the hardener, the mixer should be positioned near the edges of the container and from the bottom to the top. Component C is gradually incorporated into the mixture while blending to achieve a uniform mixture. The three components must be thoroughly combined. It is advisable to transfer the mixture into another clean container and mix again for 3-4 minutes. Aggregate can be added to the EP-8003 on-site. This process should be conducted within the prepared homogeneous resin mixture.



Application Details

EP-8003 is applied to the desired thickness using a notched trowel or a specialized rubber roller. The prepared mixture is uniformly distributed over the previously prepared surface using the selected method. After the application of EP-8003, a spiked roller is utilized on the self-leveling coating to prevent bubble formation and facilitate its release. If a textured surface is preferred, specially formulated silica sand is sprinkled over the applied material while it remains wet, ensuring complete coverage. Once the material has fully cured, any excess sand is removed with an industrial vacuum cleaner, and the surface should be finished with either a top coat of EP-8002 or EP-8004 epoxy paint.

- The material must be safeguarded against water, rain, external elements, and mechanical stress until it has cured.
- It is important to consider that the waiting time may be reduced in warm weather and extended in cold weather.



Consumption

For light loads: 1.9 kg/m² (1 mm) Medium to heavy loads: 3.8 kg/m² (2 mm)



PACKAGING

In 30 kg (A: 16 + B: 4 + C: 10) arranged tin buckets



Shelf life

It must be safeguarded against unfavorable weather conditions. It should be kept in a dry, cool, and sealed environment (between +10 °C and +25 °C). The opened and mixed product should be consumed promptly. It has a shelf life of 12 months when stored in its unopened packaging, in dry locations at a minimum temperature of +5 °C.



Attention

- In applications conducted in enclosed spaces, the environment must be adequately ventilated.
- In cold weather, packages should be stored for a minimum of 24 hours at a temperature no lower than +15°C prior to application.
- Following application, the surface must be safeguarded against water, rain, dew, snow, hail, frost, and similar climatic conditions until it is entirely dry.
- Avoid approaching with open flames and refrain from smoking during application.
- Utilize gloves, goggles, and protective attire.
- In the event of skin contact, cleanse thoroughly with soap and ample water.
- Do not ingest, do not utilize empty containers for food storage, and do not dispose of them in fire.
- For professional use only; keep out of reach of children.

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