

SUFFIX EP GUARD SL

Epoxy Based, High Chemical Resistant, Self-leveling Floor Coating

FLOORING GROUP

Description of Product

SUFFIX EP GUARD SL is an epoxy resin-based, two-component, solvent-free, self-leveling, colored floor covering material with high chemical resistance, which can be used as a multi-layer or single thin layer coating.

Areas of Use

In epoxy multilayer systems applied on concrete, cement or epoxy mortars, in all industrial floorings where high chemical and water resistance is required, in chemical production and storage/packaging areas where forklift, loader and heavy vehicle traffic occurs, it can be mixed with quartz sand or different filling materials for medium and heavy loads. It is used in many places where mechanical, chemical and abrasion resistance is required on exposed surfaces.

Advantages

High chemical resistance, high mechanical strength, problem-free applicability to sandy or sandless surfaces due to its self-leveling feature, high abrasion resistance, easy applicability, easy to clean and maintain, creating a layer impermeable to liquids. Times are approximate and will be affected by changing environmental conditions, especially temperature and relative humidity.

Physical Properties

Quality (23°C, 50% RH)	Value	Standard & Method
Appearance	A Component: Colored, Liquid B Component: Transparent, Liquid	-
Colour	Ral Colors	-
Viscosity (Brookfield, mPas)	A Component: 1000 ± 200 B Component: 200 ± 100	EN ISO 2555
Density (gr/cm ³)	A+B Component: 1,65 ± 0,05	EN ISO 2811 - 1
Solid Matter (% wt)	A+B Component: 100	EN ISO 3251

Mechanical Properties

Quality (23°C, 50% RH, 7 Days)	Value	Standard & Method
Compressive Strength (N/mm ²)	> 50	EN ISO 196
Flexural Strength (N/mm ²)	> 20	EN ISO 196
Adhesion Strength (N/mm ²)	> 2	EN 1542 ASTM D 4541
Surface Hardness (Shore D)	> 75	ASTM D2240/DIN 53505/ISO R868
Abrasion Resistance (mg)	45	CS 100/1000/100

Technical Properties After Application and Cure

Quality (23°C, 50% RH)	Value	Standard & Method
Mixing Ratio	100:25	-
Pot Life (minutes)	20	100 gr (A+B)
Touch Dry (hours)	6 - 8	-50% RH at 23°C
Waiting Between Layers (hours)	8 - 12	
Opening to Light Traffic (days)	2	
Full Curing (days)	7	

Times are approximate and will be affected by changing environmental conditions, especially temperature and relative humidity

Application Information - Surface Preparation

Oil, wax, grease, water repellents, loose parts that do not adhere and can easily lift off, and dust that will weaken the adhesion forces on the surface should be cleaned and removed with a floor milling machine. New concrete must be at least 28 days old. The surface should be primed before application. The concrete surfaces to be applied must have at least the following standards:

Hardness: R28 = 15 Mpa
Temperature: 10-30 °C
Surface Humidity: <4%

Application Information - Environmental Conditions

- The relative humidity of the air should be at most 80% and the application temperature (environment and surface) should be between +10°C and +30°C.
- It should not be rainy in open areas 24 hours before, during and 24 hours after application.

Preparation of Mixture

Component A and component B come in separate packages with pre-mixed proportions. Component B is completely poured into component A and mixed. Mixing should be done with a mixer at 300 rpm. It is a two-component product and should be prepared in the specified mixing ratio for the amount to be consumed, taking into account its pot life. In order to obtain a homogeneous mixture, care must be taken that the product temperature is not less than 15°C. Component A should be mixed quickly with a mechanical mixer, and the hardener (component B) should be added, paying attention to the mixing ratio. Components A and B should be mixed with a mechanical mixer for at least 3 minutes until they become homogeneous. After components A and B are mixed, silica sand is added if necessary and mixed for another 2 minutes. Care should be taken to consume the prepared mixture within its pot life.

Application

The mixture, which is ready for application, is poured onto the surface and spread homogeneously with an adjustable gauge or notched trowel. The air discharge of the material that is completely spread on the surface is accelerated with the hedgehog roller. It is recommended to wear spiked shoes to avoid damaging the application surface during application.

The applied surfaces must be protected for at least 24 hours. The material reaches the mechanical values given in the technical data sheet in approximately 7 days.

Packing

In sets of 25 kg;
Component A: 20 kg metal bucket packaging
Component B: 5 kg metal bucket packaging

Consumption

1.50 - 2.50 kg/m² (by adding 0.1-0.3 mm Quartz silica sand in rate of 40%)

Storing and Shelf Life

It can be stored for 12 months from the production date if stored correctly in its original, unopened and undamaged packaging, in dry conditions between +15°C and +30°C.

Safety Precautions

During application, work clothes, protective gloves, glasses and masks that comply with occupational and worker health rules should be used. Due to the irritating effects of the uncured product, the components should not be contacted with the skin or eyes. In case of contact, it should be washed with plenty of water and soap. If swallowed, consult a doctor immediately. For detailed information, ask your dealer for the Safety Data Sheet (MSDS). Keep out of reach of children.

None of our instructions and technical specifications written herein are binding in general and EXCLUSIVELY in accordance with the protective rights of third parties and do not exempt you from the obligation to carry out the necessary examination to determine the suitability of our products. Our company is not responsible for any damages that may occur as a result of natural damage or due to use and/or product reliability or information and instructions, for whatever reason and to whatever extent.

