BILIZO® FLOOR EPOXY SELF

Multi Functional Epoxy Coating Compound

Product Description

It is an epoxy resin-based, two-component, solvent-free and color flooring of low viscosity, which is used as self levelling multilayer or thin coat coating when mixed with proper filling materials

Uses

- It is used on the concrete, cement or epoxy mortars for all industrial floors;
- In the warehouse, hangar and repair-maintenance units,
- For epoxy multilayer systems applicable at the factories, workshops, production and packaging sites having a traffic of forklift, loader and heavy vehicles
- On surfaces subject to medium to heavy load in many places which require mechanical, chemical and wear resistance by mixing silica sand or different fillers.

Packaging

A 20-kg set of BILIZO® FLOOR EPOXY SELF consists of Component A in one pail of net 16 kg and Component B in one gallon of net 4 kg.

Consumption

- Self levelling flooring :
  BILIZO® FLOOR EPOXY SELF.....1000 g/m²
  0,1 - 0,3 mm quartz sand .....1000 g/m²

- High structure thin flooring :
  BILIZO® FLOOR EPOXY SELF
  1st coat.....300 g/m²
  2nd coat.....300 g/m²

- Textured surface flooring :
  BILIZO® FLOOR EPOXY SELF
  1st coat.....300-400 g/m²
  2nd coat.....500-600 g/m² + 1,5 – 2% thickening filler

Depending on the system solutions, the usage and amount may change.

Advantages

- Solvent-free, low viscosity, resilient structure,
- High wetting capability,
- High compression and wear resistance,
- Easy to clean and resistant to chemicals

Technical Data

Finish	Gloss
Color	Any colors
Density	1,4 ± 0,05 kg/lt (A+B)
Mix Ratio	4:1 (A:B – by weight)
Solids by Volume	100% (A+B)
Pot Life (+10°C)	50 minutes
(+30°C)	20 minutes
Wait Time Between Coats	24 hours / at 20°C
Ready for Light Traffic	24 hours / at 20°C
Full Cure	7 days / at 20°C
Compression Strength	60 N/mm² (in full cure)
Taber Abrasion Resistance	50 mg (in full cure)
Flexural Strength	35 N/mm² (in full cure)
Surface temperature	+8°C - +35°C
Ambient temperature	+8°C - +35°C
Relative air humidity	Max %70-80
Dew Point	Pay attention to the dew point! Dew point must be at least +3 °C in order to reduce the risk of condensation and blooming in finished surface and uncured coating surface temperature.

Application

Surface Preparation: Floor surface should be clean and defect-free. All loose, friable particles oil and paint leftovers and cement laitance on the surface should be removed. Wide breaks and defects should be repaired beforehand. Rules of surface preparation should be observed during the priming procedure.

Strength: Mechanically, it resists against mechanical effect of medium to high load. And thermally, it resists up to +80°C at humid temperature (also without any chemical and mechanical effect) and up to +120°C at dry temperature.

Application Conditions:
- Maximum relative humidity of the air should be 80%, and application (ambient and surface) temperature should be between +5 and 35 °C.
- In case it is applied outdoors, it should not be rainy 24 hours before and after and during the application.
- Surface temperature should be 3°C above the then dew point. (Please call our firm for the Ambient temperature-Ambient Moisture-Dew Point table.)

Mixing Procedure: It is a two-component product and it should, therefore, be prepared at the mix ratio specified for the quantity to be used, taking into consideration the pot life. For a homogenous mixture, make sure that the product temperature should not be less than 15°C. Component A should be stirred by itself by use of a mechanical mixer quickly and then the hardener (Component B) should be added, taking care of the mix ratio. Components A and B should be stirred by using a mechanical mixer for minimum 3 minutes until you have a homogenous mixture. Quartz sand in the respective mix ratio is added to the ready mixture and the mixing operation is continued until it becomes homogenous.

Surface Application: After made ready to apply, the mixture is applied with toothed trowel on the surface primed and level-balanced for self-levelling flooring. Air bubbles of the fresh flooring that spreads over the surface thoroughly should be removed by spiked roller. Roller is used for thin coating. Wait time between the coats is minimum 24 hours (20°C) and maximum 5 days. It is very important that the second coat should be applied within the time for overcoating specified above. It reaches to a full mechanical and chemical strength in about 7 days.

WARNING: After 36-48 hours the material is applied, air temperature should be above 8 °C , it should not be rainy or snowy and should be applied with considering the possibility of raining.

Clean Up Of Tools: Cellulosic or Epoxy thinner.

Storage

Store the product in a cool and dry place. Shelf life of the product is 1 year for Components A and B when stored properly in the original container unopened.

Safety Measures

Refer to Material Safety Data Sheet (MSDS) prepared as per the related EU directives before use.