



BILIZO® EPOXY COAT

Multi-Purpose Epoxy Coating Compound

Product Description

It is an epoxy resin-based, two-component, solvent-free, low viscosity primer – undercoat – leveling and epoxy mortar floor coating material.

Uses

- Waterproofing of interior and exterior areas ,
- Waterproofing of vertical and horizontal applications.
- Waterproofing of basement floors.
- Waterproofing of foundation wall,
- Waterproofing of tunnels.
- Waterproofing of Semi-Olimpic Swimming Pools
- Waterproofing of elevator shafts.
- Waterproofing of retaining walls.

Packaging

16 kg set of BILIZO® EPOXY COAT consists of Component A in one pail of net 12 kg and Component B in one gallon of net 4 kg.

Consumption

•**As impregnation primer:** 450-600 gr/m2
(Depending on the concrete surface, it is recommended to thin it with Epoxy Thinner by 5-10 % for better impregnation)

•**As bonding bridge:** 250-500 gr/m2

•**Level Stabilization Mortar:** 1,7 / 1,9 kg/m2/mm
(Applied by mixing 1 unit of BILIZO® EPOXY COAT (0,5 mm) and 1 unit of quartz sand (0,1 to 0,3 mm))

•**As undercoat:** 1,9 kg/m2/mm
(Applied by mixing 1 unit of BILIZO® EPOXY COAT (0,5 mm) and 1 unit of quartz sand (0,1 to 0,3 mm, Optionally, the surface, while it is still wet, is broadcast with 0,4 to 0,7 mm of quartz sand by a consumption rate of 4 kg/m2 approximately)

•**Epoxy Mortar:** 2,2 kg/m2/mm
1 unit of BILIZO® EPOXY COAT is mixed with 8 units of quartz sand which is mixed as mentioned below:
0.1 to 0.6 mm quartz sand 25 units
0.6 to 2.0 mm quartz sand 50 units
2.0 to 4.0 mm quartz sand 25 units

Advantages

- Multi-purpose
- Low viscosity
- Perfect bonding
- High concrete wetting capacity
- Applicable on damp concrete
- Enduring against heavy loads

Technical Data

Finish	Brownish transparent liquid
Colour	Colourless
Density	1,40 ± 0,05 kg/lt (A+B/20°C)
Mix ratio	4:1 (A:B – by weight)
Solids by volume	100% (A+B)
Pot Life (+10°C)	80 minutes
Pot Life (+30°C)	20 minutes
Wait-Time Between Coats	Minimum 12 hours and maximum 3 days for solvent-free products; Minimum 24 hours and maximum 5 days for solvent products
Ready for Light Traffic at (20°C)	48 hours
Full Cure (20°C)	7 days

NOTE: The above values are given for 23°C temperature and 50% relative humidity. Higher temperatures will shorten the time while lower temperatures will extend it.

Application

Surface Preparation

Application surface should be free of any damages. Age of the new concrete should be minimum 28 days depending on the season; and concrete surfaces should have a moisture content of maximum 5-6%. Surface should have compression strength of minimum 25 N/mm² and pull-off test result of minimum 1.5 N/mm². It should be free of any loose and friable particles, oil and paint leftovers and cement laitance. Wide cracks and defects should be repaired beforehand. Any cement shell and bright screed on the concrete surface should be cleaned up by equipment such as sandblasting machine, hacking machine, wiping machine with diamond drum and impact grinding machine and it should then be roughened and wiped. Remove all dust from the surface by using industrial type vacuum cleaner.

Concrete surfaces in contact with the soil to be coated should be insulated against water and water vapor.

Ambient Conditions

-Application temperature (ambient and surface) should be between +5°C and +35°C and the relative humidity should be 90% maximally.

-In case it is applied outdoors, it should not be rainy 24 hours before and 24 hours 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.)

Thermal Resistance: Short-term moist/wet heat up to +80°C where exposure is only occasional (steam cleaning etc.). Continuous resistance against dry heat up to 60°C and shortly up to 60°C (in 3 to 4 mm thickness)

Mixture Preparation

It should 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 is not 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 before the application.

Surface Application

As Primer and Bonding Bridge: Apply it by brush, roller or squeegee. Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats.

As Leveling Mortar: Apply it by trowel or squeegee to the required thickness.

As undercoat: The material is poured over the surface and spread by help of a toothed trowel and rolled immediately in two directions with spiked roller. If necessary, the surface is broadcast several times with quartz sand about 15 to 20 minutes later until no wetness is seen on the surface.

As Epoxy Mortar: Apply the mortar screed evenly on the still tacky bonding bridge, using leveling battens and screed rails as necessary. After a short waiting time compact and smoothen the mortar with a trowel or Teflon coated power float.

Wait-time between coats should be observed.

Tool Cleaning: Cellulosic or epoxy thinner.

Storage Conditions

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 Information

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