

BILIZO® EP 500

Solvent Free Epoxy Coating

Product Definition

It is an epoxy resin-based, two-component, solvent-free, fresh water and sea water resistant, elastic, single layer coating that cures with a polyamine hardener. It can be cured at low temperatures. It is not affected by serial air changes, does not crack or shrink. Does not contain benzyl alcohol, nonyl phenol.

Uses

- On the inner surfaces of drinking water, domestic water storage tanks in industrial facilities, ships and residences.
- Pipelines carrying drinking water and salt water
- It is used as a protective coating on steel and concrete surfaces.

Advantages

- Solvent free, 100% solid by volume.
- It creates a hygienic surface and is suitable for use in drinking water tanks.
- It can be used on steel and concrete surfaces.

Packaging

A 20 kg set of BILIZO® EP 500; consists of a net 16 kg of component A in a bucket and a net of 4 kg of component B in a gallon.

Technical Data

Appearance	Shiny
Colour	Light green
Intensity	1,35 ± 0,05 kg/lt (A+B)
Mixing ratio	4:1 (A:B – by weight)
100% (A+B)	%100 (A+B)
Mixing Life (+10°C)	80 min
Mixture Life (+30°C)	45 min
Waiting between floors	24 saat / 20°C de
Theoretical spread	2,56 m ² /kg (300 mikron dry film thickness)
full cure	7 day / @ 20°C
Flash point	> 100°C
VOC (Volatile organic matter)	0 gr/lt

DRYING INFORMATION

(300 dry film thickness)	Touch Dry	Hard Drying
5°C	36 saat	96 saat
15°C	16 saat	72 saat
25°C	10 saat	36 saat
35°C	7 saat	24 saat

APPLICATION INFORMATION

application equipment	Airless spray	Roller/ brush
Application Viscosity	Mixture viscosity	Mixture viscosity
Thinning rate (by weight)	-	-
Pressure Bar	250-300	-
Nozzle (inch) nozzle (mm)	0.021 - 0.027 Inch	-

Application

Surface Information: All surfaces to be painted must be clean, dry and free of all impurities.

New Metal Surfaces: Oil and grease on metal surface; should be cleaned with the help of detergent or steam, salt and other impurities should be removed with high pressure fresh water. After cleaning, scraping should be done at least Sa 2½ according to ISO 8501 standard. It is recommended that the surface roughness profile be 75-100 microns in scraping. It is applied directly to the surface without the need for a primer in steel pipes, small tanks and warehouses, where surface cleaning can be completed and paint application can be started on the same day. In applications where surface cleaning continues for a few days or longer, a single coat of blasting primer should be applied on the cleaned and roughened surfaces to give a dry film thickness of 40-60 microns.

Concrete Surfaces: The surface should be prepared by abrasive blasting or, if not possible, by other mechanical methods or by acid treatment (etching) until a hard and rough, uniform surface is obtained, and cleaned with pressurized fresh water. In large warehouses, it is recommended to first apply a suitable sealer (moisture cure epoxy primer) to the surface. Care should be taken to ensure that the surface is clean and dry before application.

Strength: It is mechanically resistant to medium and high weight mechanical effects. Thermally, it withstands +80°C in humid temperature (without chemical and mechanical effects at the same time) and +120°C in dry temperature.

Environmental Conditions:

- The relative humidity of the air should be maximum 90% and the application temperature (environment and surface) should be between +5°C and +35°C.
- It should not be rainy in open areas, during the application and 24 hours after the application.
- In applications to be made under direct sunlight, the surface temperature should not exceed 50°C.
- The ground temperature should be 3°C above the current dew drop temperature. (Ask for the Ambient temperature-Ambient Humidity-Dew Temperature table from our company.)

Preparation of the Mixture: It is a two-component product and should be prepared in the specified mixture ratio, considering the pot life, as much as the amount to be consumed. In order to obtain a homogeneous mixture, the product temperature should not be less than 15°C. Component A should be mixed quickly with a mechanical mixer, and the hardener (component B) should be added by paying attention to the mixing ratio. A and B components should be mixed with a mechanical mixer for at least 3 minutes until homogeneous. Care should be taken to consume the prepared mixture within the pot life period.

Application to the Surface: The mixture, which is made ready for application, is applied in the consumption of the paint system or by controlling it with a wet film comb to obtain the desired dry film thickness. It should be noted that there will be 5-10% difference between the wet film and dry film thickness. Care should be taken to apply a maximum of 600 micron wet film in a single layer to prevent leakage in the application. The Roller/Brush application should only be used for trimming and covering small areas. Thinner should not be used during application.

Cleaning of Tools: With Cellulosic or Epoxy thinner.

WARNINGS:

- It is recommended to use a witness panel when measuring wet film and dry film thickness.
- If the maximum time is exceeded in the application of paint between coats and/or the surface has been left in a dirty environment for a long time, the surface should be roughened and/or washed with high pressure fresh water and allowed to dry before the next coat of paint is applied.

Storage

The material should be stored in a cool and dry place. The life of the material is 1 year for components A and B when stored properly and in its unopened original packaging.

Safety Measures

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