



# BILIZO® EPOXY DWT

## Hygienic Solvent-Free Lining

### Product Description

It is an epoxy resin-based, two-component, solvent-free and resilient one-coat lining resistant to fresh water and sea water and cured with polyamine hardener. It can be cured at low temperatures. It is not affected by quick change of weather conditions; does not crack and wrinkle. It does not contain benzyl alcohol, nonyl phenol

### Uses

- It is used as protective lining on the inner surfaces of the service water storage tanks at the industrial plants, ships and houses,
- Piping lines for transmission of potable water and salt water,
- On the steel and concrete surfaces.

### Packaging and Colors

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

A 5-kg set of BILIZO® EPOXY DWT consists of Component A in one pail of net 4 kg and Component B in a can of net 1 kg.

### Consumption

#### DRYING SCHEDULE:

(in dry film thickness of 300 microns)	Touch-dry	Hard Dry
5°C	36 hours	96 hours
15°C	16 hours	72 hours
25°C	10 hours	36 hours
35°C	7 hours	24 hours

It reaches to a full mechanical and chemical resistance in about 7 days.

#### APPLICATION INFORMATION:

Application Equipment:	Airless Spray	Roller/Brush
Application Viscosity:	Mixture viscosity	Mixture viscosity
Thinning Ration (by weight) :	-	-
Pressure (bar) :	250 - 300	-
Nozzle (inch)/ (mm) :	0,021 - 0,027 inch	-

### Advantages

- Solvent-free with content of solids by 100%
- Forms a hygienic surface and suitable for use in the potable water tanks,
- It can be used on the steel and concrete surfaces.

### Technical Data

<b>Finish :</b>	Gloss
<b>Color:</b>	Light Green
<b>Density:</b>	1,35 ± 0,05 kg/l (A+B)
<b>Mixing Ratio :</b>	4:1 (A:B – by weight)
<b>Solids by Volume :</b>	100% (A+B)
<b>Pot Life (+10°C) :</b>	80 minutes
<b>(+30°C) :</b>	45 minutes
<b>Recoating Interval:</b>	24 hours / at 20°C
<b>Theoretical Spread:</b>	2,56 m <sup>2</sup> /kg (at 300 micron dft*)
<b>Fully Cured:</b>	7 days / 20°C de
<b>Flash Point:</b>	>100°C
<b>VOC(Volatile Organic Compound) :</b>	0 g/l
<b>Application Systems :</b>	Airless spray, roller/brush

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.

## Application

---

**Surface Preparation:** All surfaces to be painted should be clean, dry and free of any dirt.

**New metal surfaces:** Oil and grease on the metal surface should be cleaned off by help of detergent or steam; salt and other impurities should be removed off by high pressure fresh water. After the cleaning operation, scraping should be performed at level of Sa 2½ as a minimum. It is recommended that surface roughness profile should be 75-100 microns during scraping. For the steel pipes, small tanks and depots which allow start of paint application on the day when the surface cleaning is completed, it may be directly applied to the surfaces without any need of primer. However, for applications where surface cleaning lasts for one or two days and more, one-coat scraping primer is applied on the cleaned and roughened surfaces so as to give 40-60 dft.

**Concrete surfaces:** If the surface is hard and rough, it should be prepared with abrasive scraper to have an even surface or, if it is not possible, other mechanical systems or etching should be used and then cleaned with pressure fresh water. For big tanks, it is recommended to apply first a proper sealer to the surface (BILIZO® MACRO PRIMER). Care should be given that the application surface should be clean and dry.

**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 90%, 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.
- For applications to be performed under direct sunlight, the surface temperature should not exceed 50°C.
- 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. Make sure the prepared mixture is consumed during the pot life of the mixture.

### Surface Application

After made ready to apply, the mixture is preferably applied by airless spray in amount specified in the paint system or in such amount to obtain the desired dry film thickness as controlled by wet film comb. Please note that there will be a difference of 5-10% in thickness between wet film and dry film.

For avoidance of any curtaining during application, wet film should be applied maximum in 600 microns in one coat.

Roller/brush should be used only for lining for cut-off and small areas. No thinner should be used during application.

**Clean Up:** 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.

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.