

## EP PAINT

### High Structure Epoxy Paint

#### DESCRIPTION

Fast curing, can be applied at low temperatures and high film thickness, two component, high structure epoxy paint. As a primer, intermediate layer and final layer in the application of rapid layering and drying of steel and concrete structures against corrosion.

#### PACKAGING

A 26 -kg set of EP PAINT consists of Component A in one pail of net 24 kg and Component B in one gallon of net 2 kg.

#### ADVANTAGES

- Creates an excellent adhesion, flexible, high abrasion resistant paint film,
- High chemical and water resistant, industrial pollution-resistant protective coating,
- Can be applied at low temperature, fast curing and long layering time,
- Can be applied thick coat on one coat.

#### APPLICATION PROCEDURES

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

**New metal surfaces:** Oil and grease on the metal surface should be cleaned off by help of solvent, detergent or steam; salt and other impurities should be removed off by high pressure fresh water. After cleaning, scraping should be performed at a minimum level of Sa 2½ as per the standard ISO 8501 . Surface cleanliness of St 2 – St 3 according to ISO 8501-1 is sometimes allowed depending upon the conditions. Depending on ambient conditions, blasted surfaces must be primed in maximum 5 hours.

**Primed/Mid coated surfaces:** Care should be given to the topcoat application times specified for primer or mid coat. If not, then the surface should be definitely roughened before the topcoat is applied. Make sure the surface is very clean before starting the application. Before the topcoat paint system is applied, all dirt on the primer arisen from storage and manufacturing should be cleaned off completely. For this purpose, oil, dirt and grease should be cleaned off with a suitable detergent and salt and other impurities should be washed off by high pressure fresh water. Topcoat paint should be applied after the surface gets dry.

**Old painted surfaces :** Oil and grease should be cleaned off by help of detergent; salt and other impurities should be removed off by high pressure fresh water. If the aged coating is in a good condition, it is slightly sanded. Otherwise remove all the cracked and peeling paint by using hand tools to a cleanliness of St 2 – St 3 according

to ISO 8501-1. If applicable blast cleaning to Sa 2 - Sa 2½ according to ISO 8501-1 level to get better results.

**Touch up:** Prior to retouch, the surface should be clean, dry and free of any dirt. After the cleaning according to ISO 8501 standard at St 2 level the retouch should be executed as soon as possible.

#### SYSTEM STRUCTURE STRENGTHENING

The structure of coating system can be strengthened by adding FRP or GRP woven clothes or mesh .

**Strength:** 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:

- Relative humidity of the air should be 80% maximum and the application (ambient and surface) temperature should be between 0 and 35 °C.
- In case it is applied outdoors, it should not be rainy 12 hours before and after and during the application.
- When it is very windy, no application should be performed outdoors as it would increase consumption.
- 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. After it is brought to the application viscosity with Epoxy Thinner, it should be allowed to rest for 10-15 minutes and should be given to consume it within the pot life.

#### Surface Application:

Prior to the application with ready-to-apply mix all weld seams and sharp angles shall be striped. Applied based on the consumption values that are stated in the actual point system; or by checking with the wet film thickness gauge until the desired dry film thickness is acquired. Avoid of spray dust and excessive film thickness in the application. Brush / roller usage is recommended only in predictions and small applications.

## EP PAINT

### APPLICATION PROCEDURES

<b>Thinner (by weight)</b>	% 3 – 8	% 5 - 10
<b>Pressure (bar)</b>	150 - 200	-
<b>Nozzle(inch) / Diameter (mm)</b>	0,017 - 0,023 inch	-

**Clean Up:** Cellulosic or Epoxy Thinner.

### Safety Informations

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

### DRYING SCHEDULE

(in dry film thickness of 100 microns)	Dry to touch	Hard-dry
<b>0°C</b>	12 hours	36 hours
<b>10°C</b>	8 hours	18 hours
<b>25°C</b>	4 hours	8 hours
<b>35°C</b>	2 hours	5 hours

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

### TECHNICAL SPECIFICATIONS

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.

<b>Finish:</b>	Semi-gloss
<b>Color:</b>	All colors
<b>Density(20°C):</b>	1,55 ± 0,05 kg/l (A+B)
<b>Mixing Ratio</b>	12:1 (A:B- by weight)
<b>Solids by Volume:</b>	72% ± 1 (A+B)
<b>Pot Life (20°C):</b>	3 hours
<b>Wait Time Between Coats(20°C):</b>	Min. 4-6hours/Max. 3 months
<b>Theoretical Spread:</b>	4,65 m <sup>2</sup> /kg (in 100 micron dft*)
<b>Flash Point:</b>	> 21°C
<b>VOC (volatile organic compound):</b>	248 gr/l
<b>Application Systems:</b>	Airless spray, Roller,Brush
<b>Thinner:</b>	Epoxy Thinner
<b>Recommended Application Thickness:</b>	75 – 200 micron dft*

NONE OF OUR PUBLISHED INSTRUCTIONS AND SPECIFICATIONS, IN WRITING OR OTHERWISE, ARE BINDING EITHER IN GENERAL OR WITH RESPECT TO ANY THIRD PARTY RIGHTS, OR DO THEY RELIEVE INTERESTED PARTIES OF THEIR DUTY TO SUBJECT THE PRODUCT TO AN ADEQUATE EXAMINATION OF ITS SUITABILITY. IN NO EVENT WILL ENVIRONMENT TECHNICAL SERVICES BE RESPONSIBLE FOR DAMAGES OF ANY NATURE, WHATSOEVER, RESULTING FROM THE USE OF OUR RELIANCE UPON INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.