

## EPOLAC EPOXY ZINC RICH PRIMER TWO PACK

### ➤ Scope

Epolac epoxy zinc rich primer is a two-pack primer containing about  $85 \pm 1\%$  zinc dust in the dry film. It is very flexible whereby it offers much longer protection in comparison to such primers, available in the market. It works on the principle of cathodic protection, which is obtained by using zinc dust as sacrificial anode. It protects to a great extent discontinuities in the film like scratches, holidays, etc. And in combination with suitable finish coats, a single coat of this primer offers protection over a period of several years. This makes it an extremely useful coating for structural steel work facing marine atmosphere and chemical splashes.

### ➤ Areas of Application

Epolac epoxy zinc rich primer is used extensively in various industries using structural steel in pre-fabrication stage and as a shop primer for installations in marine industry, in shipyards, in port/harbor installations, etc. It is also used for shutters of dams, spillways, penstocks and pipelines and under water structures. In all these cases the primer must be coated with the recommended paints.

### ➤ Surface Preparation

The mild steel surface should be blast cleaned and made free from oil, grease or rust. If it is not possible, remove all the contaminants by using mechanical tools like, chipping; wire brushing etc. In case of structure, which is ready made and where it is not possible to reach nook and corners, make liberal use of rustosan, which will be helpful in removing grease/oil and rust. However, before using rustosan, rust scales must be loosened with heavy-duty wire brushing discs.

### ➤ Technical Data

- APPEARANCE : Base : light grey paste  
Hardener : pale brown clear liquid
- VISCOSITY : Base : thixotrope  
Hardener : 18-20 secs. Fc/4 @ 30<sup>0</sup> c.
- WEIGHT/LITRE : Base : 2.20 kgs  
Hardener : 0.9 kg.
- MIXING RATIO : Base (3) : hardener (1) by volume
- VISCOSITY OF THE MIX : 30 – 35 seconds fc/4 @ 30<sup>0</sup> c
- THINNER RECOMMENDED : For brushing : none  
For airless spray : minimum quantity of thinner 055.
- DRYING TIME : Touch dry : 20 - 25 minutes  
Surface dry : 45-50 minutes.  
Thumb impression free : 2½ - 3 hrs.  
Hard dry : over night
- FLEXIBILITY : Passes 1/8" mandrel.
- CROSS HATCH TEST : Passes

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- IMPACT TEST : Passes drop of 1 kg. From a height of 18”.
- SCRATCH HARDNESS : Passes 1500 gms. After 48 hours.
- SALT SPRAY RESISTANCE : 500 hours for the unprimed surface.
- DRY FILM THICKNESS : 50 – 55 microns.
- COVERING CAPACITY : 7 – 8 sq. Mtr. Per litre single coat.
- POT LIFE : Six hours minimum

### ➤ **Directions for Use**

Prepare the surface as recommended under the heading, “surface preparation.” Stir the base thoroughly and mix the hardener in recommended proportion. Set aside the mix for 15-20 minutes to mature for application. Mix the base and hardener, enough to last five hours (before the pot life is over).

### ➤ **Notes**

Re - coatability :

Since the dry film is mostly made of zinc metal, the two pack epoxy zinc rich primer film should be primed with, rosalee metaprime-h after overnight curing.

Again if the plates, sheets or articles coated with epoxy zinc rich primer are stored for a long time, they tend to develop white rust (zinc salts) and the same must be hosed off with water before application of any other coat. Not only that, the water should be totally dried off by blowing compressed dry air or by sunlight. Rosalee metaprime-h be applied, a thin coat only. The surface will be ready to receive any type of finishing coat. Clean brush or gun immediately after use to prevent hardening of brush and choking of gun.

### ➤ **Disclaimer**

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