

DEMOXY – P18040

DEMOXY –P18040 is a two pack Epoxy primer incorporated with Zinc Phosphate ingredient .This primer is used in the coating system for protection of metal substrate , works both under marine and inland outdoor weather conditions. It is compatible with wide range of top coats and thus forms highly efficient protective system for corrosive coating and chemical environments.

Advantages

- Excellent bonding with variety of substrates
- Good corrosion and solvent resistance
- Fast drying properties
- Excellent resistance in splash zone.

Recommended Application

- Marine and chemical environment
- Pulp and paper mill
- Refineries, petrochemicals
- Fertilizer units
- Metal and engineering industries.

Typical Properties:

| Sr. No. | Typical Properties | Test Standards | Typical Values |
|---------|-------------------------------------------|----------------|-------------------------------|
| 1 | Color & Appearance | | Off white colored low Viscous |
| 2 | DFT | | 35-40 Micron |
| 3 | Theoretical coverage sqm /ltr @ 40 micron | | 5-6 |
| 4 | Viscosity @ 30°C by B4 cup | | 50 – 60 Sec. |
| 5 | Volume of solids % | ASTM D 2697 | 60 |
| 6 | Drying Time | | Surface dry : 1-2 Hrs. |
| | | | Hard dry : 3 Hrs. |
| | | | Full cure : 24 Hrs. |
| 7 | Working time (minutes) | | 45-50 |
| 8 | Mixing ratio (R: H) | | By W t. |
| | | | By Vol. |
| | | | 100:25 |
| | | | 4:1 |
| 9 | Temperature Resistance | | 120°C dry heat |

Direction for Use

Surface Preparation

The product performance and service life depends upon proper surface preparation and strict adherence to instructions pertaining to application.

Metal substrate

- Remove oil and grease from surface by solvent cleaning as per SSPC-SP-1 procedure.
- Any unevenness in the joint parts must be flattened by grinder machine and then sand blasted. If sand blasting is not permissible, portable grinder or any other rust removing and cleaning process is recommended.
- It is recommended that the surface should be grit blasted to a near white metal standard. The finish surface roughness should be measured with ISO 8501 -1-1988 SA 2.5.
- Blasting of surface should not be carried out when relative humidity is above 85% and atmospheric temperature is <math><5^{\circ}\text{C}</math>.
- Damp surface will need preheating to warm touch for removal of moisture.

Mixing

- It is strongly recommended that complete kits should be mixed as per the prescribed proportion.
- Before mixing of Hardener to resin, stir the resin as well as hardener part (separately).
- Add Resin and hardener mix with a low speed (400 rpm) power mixer for 3-5 minutes. Then add the Hardener and mix for a further 2-3 minutes until homogeneous.
- Complete mixing of Hardener, Resin is essential and efficient mechanical mixing is mandatory. Be sure to mix along the sides and bottom.
- Where several batches are required, mixing times should be constant to maintain consistent workability.
- Under mixing may mean that the Hardener components are not fully dispersed and will not fully react, producing “soft spots” in the finished floor.
- Over mixing introduces air into the system which can lead to inconsistent color, surface pin-holing and blistering.

Application

- Immediately after grit blasting, apply properly mixed material on the prepared surface by roller or brush or airless spray.
- Contamination before application of subsequent coat should be avoided.

Technical Tips for Working with Epoxies

Working time and cure time depends on temperature and mass:

- Higher the temperature, faster the cure.
- Larger the mass of material mixed, faster the cure.

To speed the cure of epoxies at low temperatures:

- Store epoxy at room temperature.
- Slightly warm the surface under repairs until warm to the touch.

To slow the cure of epoxies at high temperatures:



- Mix epoxy in small masses to prevent rapid curing.
- Cool resin/hardener component.

Shelf Life

One year, if stored at room temperature in the original unpacked container.

Warning

May cause burns to eyes and skin. May be harmful if swallowed.
Do not take internally. In case of eye contacts, wash thoroughly with water and consult doctor.

Disclaimer

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.