



Echo High build chemical resistant & anti-corrosion zinc Phosphate Epoxy

• **DESCRIPTION & FIELD OF APPLICATION**

It is a high build two-pack, glossy epoxy for metal provides high quality protective coatings with Excellent mechanical strength and chemical resistance, based on zinc phosphate epoxy, formulated for exterior & interior applications.

It is a very hard coating with high layer thickness, specially formulated to provide outstanding durability and unsurpassed chemical resistance in a variety of interior and exterior commercial and industrial environments.

Its special formulation provides excellent resistance to abrasion, excellent intercoat adhesion, UV resistance & remarkable durability in urban and aggressive marine & industrial environments of very high atmospheric corrosivity and for surfaces to be immersed, And offers excellent hardness and durability, an excellent gloss finish that is fade resistant, and its performance qualities that far exceed that of conventional type coatings such as, alkyd enamels or industrial air dry enamels.

• **RECOMMENDED USES**

On exterior and interior metal, steel concrete, asbestos cement & wood surfaces in industrial & marine environments and on surfaces to be immersed in fresh & sea water and to be buried in soil. Ideal field of application is chemical plants, petroleum refineries, power plants, water purification plants, storage tanks, structural steel, marine installations, ships & buoys, sewage works, pipe lines, interior & exterior sides of water and gas pipe lines & reservoirs, cooling basins, flood channels & ducts, fertilizer factories, oil and grease warehouses, machinery, bridges, pylons, chimneys, floors & walls of car parks, tunnels, etc...

• **MAIN FEATURES**

- High Performance Quality
- Very resistant against abrasion and chemicals
- Contains a high amount of rust inhibitors
- Tintable in almost any colour
- Excellent Coverage
- Excellent Durability
- non-yellowing
- Chemical Resistant
- Alkali & Acid Resistant
- UV Resistance

- Fade Resistant
- Excellent abrasion
- Impact Resistant
- Good/excellent resistance to corrosion and weathering
- Can be applied on metal and floors
- Outstanding color and gloss retention

● PHYSICAL SPECIFICATIONS

- | | |
|----------------------------------|--|
| - Finish | - High Gloss |
| - Color | - Wide range of colors possible |
| - Volume Solids | - 75% |
| - Weight Solids | - 83% |
| - Non-volatile vehicle by weight | - 60% |
| - Mix Ratio | - 4:1 by volume |
| - Density | - 1.19 kg/L |
| - VOC content | - 410 gms/liter |
| - Specific gravity | - 1.20 (mixed paint) |
| - Theoretical Coverage | - 10 m ² /liter * |
| - Drying Time at 25°C | - Touch Dry: 2 hours
Hard Dry : 12 hours
Recoating Interval: 24 hours ^(minimum) |

*Coverage rate depends on the film thickness required & condition of the surface.

● SURFACE PREPARATION

A. New surfaces (Concrete & Masonry):

All new surfaces must be cured at least 30 days prior to application of the primer. The surface must be treated by removing all protrusions to get a suitable surface for application.

B. Previously painted surfaces:

Remove old paint from the surface completely. Make sure the surface is completely clean and dry; free from dust, oil, grease, salt and mold. Fill the holes and the cracks with suitable epoxy crack filler prior to the application of the primer.

C. Steel: Blast clean the surface or sand thoroughly with emery paper to remove all rust, Apply one coat of suitable Steel Primer.

D. Galvanized iron, Aluminium, Zinalume: If new, sand the surface lightly to provide mechanical key to the primer. In case oxide layer has formed, then clean with fresh water and stiff nylon brush. Apply one coat of suitable Primer.

- **APPLICATION:**

- Stir the contents of Base before mixing with the hardener in recommended ratio.
- Mix the two together and allow 15 minutes maturation
- Add recommended thinner in desired proportion to suit the application.
- Apply uniformly two coats of finish.

- **CONDITION OF APPLICATION:**

1. The surface must be free from the dust, grease, oil, and other contaminants completely.
2. Surface temperature required during application must not be less than 10°C; the surface moisture should not exceed 8% and the relative humidity at work place not to exceed 70%
3. Maximum pH of the surface should not exceed 9.
4. Angle fillet area, joints around pipes, conduits and any other cracks on the floor must be treated with a suitable filler before application.
5. A suitable quantity of thinner can be added to get reasonable viscosity for application.
6. Do not apply on surfaces until they get completely dry
7. Do not apply next coat unless the previous one is fully dry, Minimum recoating interval time 12 hours should be given between two coats.
8. Allow curing for 24 hours after which an inspection water test can be done. Adequate ventilation should be provided during drying time

- **INSTRUCTIONS FOR APPLICATION**

1. **Airless Spray:** Maximum 10% Thinner may be added
Tip Size: 0.38 - 0.48 mm (0.015 - 0.019 in)
Pressure: 130 - 160 kg/cm² (1800 - 2300 psi)
2. **Brush or Roller** Maximum 20% Thinner may be added

- **THINNING**

- Thinner

- **PACKING**

- Echo High build chemical resistant & anti-corrosion Epoxy packed in 19-liter Pail - 1 US gallon
- Echo High build chemical resistant & anti-corrosion Hardener packed in 1 US gallon - 1 Kg

- **Colors**

- Transparent - unlimited colors

- **STORAGE**

- The product must be kept in cool well-ventilated place, protected from sunlight and heat.
- Containers must be kept tightly closed after partial usage.
- Storage life up to 5 years from date of production, if stored as suggested.

- **REMARKS**

- Avoid contact with skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe in vapor or spray.
- When working with Solvent-borne paint within insufficiently ventilated areas, forced ventilation system should be provided.
- This product is flammable. Keep away from sources of ignition. Do not smoke in the workplace.
- All liquid paints should be kept away from children's reach.
- For more information, please do not hesitate to contact our Technical Department.