

## ECHO WATER BASED EPOXY

### • DESCRIPTION & FIELD OF APPLICATION

ECHO Water-Based Epoxy is a two-component, acrylic catalyzed, epoxy resin coating formulated for high performance use in industrial and commercial environments.

Echo water based epoxy is designed for concrete flooring applications. It provides a serviceable, hard wearing Finish resistant to vehicular traffic and common chemicals, and is also suitable for use on domestic garage floors.

Echo water based epoxy is recommended for use over prepared surfaces of steel, iron, aluminum, galvanized metal, concrete block, masonry, wood and dry wall.

### • MAIN FEATURES

- Low odour
- Low VOC
- An eco-friendly resin product
- Hard wearing
- Excellent adhesion to concrete surface
- Excellent abrasion and impact resistance
- Excellent chemical resistance
- Resistant to vehicular traffic
- Self-Sealing
- Water dispersible (can be diluted up to 10% with water)
- Water wash-up

### • PHYSICAL SPECIFICATIONS:

- |                            |                                                                                |
|----------------------------|--------------------------------------------------------------------------------|
| - Vehicle                  | - Acrylic Epoxy coating                                                        |
| - Finish                   | - Gloss                                                                        |
| - Solids by Volume (Mixed) | - 47 %                                                                         |
| - Solids by Weight         | - 55 %                                                                         |
| - Density kg/L             | - 1.17                                                                         |
| - VOC                      | - <5g/l                                                                        |
| - MIX Ratio                | - 2 components,premeasured 4:1                                                 |
| - Spread Rate              | - 6~7 m <sup>2</sup> /Ltr                                                      |
| - Wet Film Thickness       | - 120-200 microns (dependent on the coverage achieved)                         |
| - Dry Film Thickness       | - 65-120 microns (dependent on the coverage achieved)                          |
| - Dryin Time               | - To Touch 25°C: 6 hrs (dependent on temperature, humidity and film thickness) |
|                            | - To Recoat :9-16 hrs                                                          |
|                            | - To Cure : 7days                                                              |

- If maximum recoat time is exceeded, abrade surface before recoating
- Adhesion to:

Old concrete	Excellent
Green concrete	Excellent
Flexibility	Good
Color	White, unlimited color

## • SURFACE PREPARATION

- Allow **new concrete** to cure for a minimum of 28 days before application
- Sweep away all loose dirt and debris. Remove any oil spots, grease or spills and wash the floor with a suitable detergent or degreasing solution and rinse. Then etch the floor using the Concrete Etching primer.
- **Previously coated floors:** Make sure the floor is clean and dry. Use a wire brush to remove any loose or peeling paint or stain. If floor is sealed, the sealer will have to be removed by grinding or shot blasting. To ensure proper adhesion, scuff sand the entire surface.

## • MIXING

- Premix both components (Parts A and B) thoroughly to ensure any settled pigment is re-dispersed before adding the activator (Part A) to the base (Part B).
- It is critical to add all of Part A to B and mix for 3 minutes.
- Thinning by cold water - maximum 5% by volume
- The activated coating must be used within 1-2 hours after the mixing based on.

## • APPLICATION

- On new or uncoated concrete, a minimum of two coats of product should be applied, the first coat may be applied by roller, spray, or spread out using a rubber squeegee, then back roll to smooth out the finish. This coating can tolerate application to damp concrete; however, conditions must be favorable to allow the moisture to evaporate.
- Apply the second coat by roller, after 9-16 hours
- Apply only when air and surface temperatures are above 10°C

- **APPLICATION CONDITIONS**

- Apply Echo Water-Based Epoxy at temperatures between 10°C and 35°C only.
- Do not apply Echo Water-Based Epoxy on substrates with more than 5% moisture content.
- Do not apply Echo Water-Based Epoxy outdoors or in areas exposed to UV light.
- Do not apply Echo Water-Based Epoxy on substrate temperatures above 35°C.

- **PACKING**

- Epoxy Resin (Component "A" ) packed in :19-liter Pail - 1 US gallon
- Epoxy Hardener (Component "B" ) packed in :1 US gallon - 1 Kg

- **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.
- All liquid paints should be kept away from children's reach.
- For more information, please do not hesitate to contact our Technical Department.