

ECHO SOLVENT FREE EPOXY (SF)

• DESCRIPTION & FIELD OF APPLICATION

A two component solvent free epoxy floor coating system which is designed for continuous protection in light and heavy duty applications.

It provides a high gloss, seamless surface that is hard wearing and durable. The system consists of a preweighed coloured base and a hardener component. It cures to a semi gloss finish that can be easily cleaned.

Echo solvent free epoxy provides a hard, abrasion, chemical and acid, fuel, Benzene... resistant floor finish.

It is recommended for use on Heavy duty protective coating for concrete, steel & wooden floors of industrial plants, car parks, warehouses, work shops, campuses, sports' courts, food & beverage processing plants, hospitals, hydraulic engineering , mechanical rooms, car washes, laundries etc.... and in places subjected to wear & tear or attack of chemicals.

• MAIN FEATURES

- Self leveling, penetrates & strengthens porous surfaces such as concrete
- Resistant to heavy foot traffic and slip resistant
- Resistance to mechanical influences, water and chemicals
- High adhesive strength and mechanical properties
- Excellent toughness, and overall chemical resistance
- Seamless and durable and good resistance to wear and abrasion
- Adheres durably to a variety of substrates
- Withstand light exposure completely
- Solventless nature and low odor, No fire hazard, no limitation in coating thickness, practically no retention of dirt, easy cleaning with detergent solutions, solvents and steam cleaning.
- Thermal stability at more than 165°C thus qualifies for applications that require heat resistance.
- Excellent long term protection and cost effective.
- High heat resistance Epoxy can withstand temperatures up to 150-275°C.
- Sensitive to thermal changes and freezing temperatures

• PHYSICAL SPECIFICATIONS:

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| - Product | - Solvent free non-slip epoxy coating |
| - Solids by Volume | - 100% |
| - Solids by Weight | - 100% |

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| - Density Kg/Ltr | - 1.3 |
| - MIX Ratio | - 2 components,premeasured 4:1 |
| - Dry Film Thickness | - 200-300 µm / per coat |
| - Wet film thickness | - 200-300 µm / per coat |
| - Coverage | - 10.4 m ² /liter @ 70 microns DFT |
| - Compressive Strength | - 66.2N/mm ² |
| - Flexural Strength | - 19.8N/mm ² |
| - Tensile Strength | - 21.5N/mm ² |
| - Resistant to Chemical | - After 7 days of coating |
| - VOC | - 15 .7 g/l |
| - Drying Time | - Surface dry : 10hours |
| | Foot traffic : 48hours |
| | Heavy traffic : 96 hours |
| | To cure : 7 days |

● SURFACE PREPARATION

The surface must be clean, dry, and in good condition. Remove oil, dust, and other foreign materials to achieve good adhesion.

A. New Concrete Floors:

Ensure that all surfaces where Echo Epoxy (SF) is to be applied are level and smooth after primer and repair compound applications. Concrete should be more than 28 days old and have a moisture content of less than 5%. The substrate should be sound and free from oil, grease, laitance and loose friable material. Any laitance must be removed mechanically (diamond grinding or grit blasting). All dust and other debris should then be removed by vacuum cleaning.

B. Old Concrete Floors:

A clean and sound substrate is essential to achieve maximum adhesion. As for old concrete floors, ensure that the substrate is free from oil, grease, laitance and loose friable matter. All repairs of concrete must be done using epoxy repair compound. Ensure that all surfaces where Echo Epoxy (SF) is to be applied are level and smooth after primer and repair compound applications.

● APPLICATION

1. **Non-slip Finish (1st coat):**

- The first coat must be applied between 24 and 36 hours after priming. Mix Echo Epoxy (SF) Component 'A' (resin) well using a drill mixer.
- Add the entire contents of the Echo Epoxy (SF) Component 'B' (activator) to the Echo Epoxy (SF) Component 'A' whilst mixing.

- Mix until uniform in colour and then decant into a clean container. Mix again and then pour mixed product onto the primed substrate, which should be demarcated in order to obtain and maintain the correct spreading rate as per the consumption rates specified for the non-slip finish required. Apply the coating with a short nap roller. Refer to consumption rate for 1st coat application for system specified. Care must be taken to ensure no pooling or flooding of the product prior to the non-slip aggregate broadcasting. The 1st coat application must not exceed consumption rates specified.

2. **Non-slip Finish (2nd coat):**

- The finish coat must be applied between 24 and 36 hours after the first coat application.
- Mix Echo Epoxy (SF) Component 'A' (resin) well using a drill mixer with a spiral head attachment. Add the entire contents of the Echo Epoxy (SF) Component 'B' (activator) into Echo Epoxy (SF) Component 'A'.
- Mix well until uniform in colour than Decant into a clean container. Mix again and then decant onto the floor in thin narrow lines. Spread the coating with a short nap roller.
- Care must be taken to ensure no pooling of the product or flooding of the surface whilst applying this final coat.

• **APPLICATION CONDITIONS**

- Apply Echo Epoxy (SF) at temperatures between 15°C and 35°C only.
- Do not apply on substrates with more than 5% moisture content.
- Do not apply outdoors or in areas exposed to UV.
- Do not apply 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.
- This product is flammable. Keep away from sources of ignition. Do not smoke in the workspace.
- All liquid paints should be kept away from children's reach.
- For more information, please do not hesitate to contact our Technical Department.