EPOXY FLOOR AND CONCRETE COATING

Polyamide cured Epoxy Coating

* SEI GLOSS FINISH FOR FLOORS AND WALLS
* ITSELF PRIMER AND FINISH FOR FLOORS & CONCRETE
* HIGH ABRASION RESISTANCE AND TOUGH COATING
* BY ADDITION OF 865-1583 IT CAN BE MADE NON SKID / NONSLIP

USES:
Epoxy Floor and Concrete Coating is tough, adherent and abrasion resistant coating. Cured finishes resist splashes and spillage of most of the aliphatic and aromatic solvents. Cured coating will not produce stain if spillage of coloured materials is immediately wiped out. It may be specified for the floors and walls in chemical factories, Power plants, hospitals, laboratories, printing/dying rooms, where cement/plaster is liable to attack by high humidity, spillage or fumes of solvents and chemicals. It also resists spillage and splashes of diesel and lubricant oils.

RESISTANCE GUIDE:

HEAT RESISTANCE: Upto 120°C (Dry).
WEATHERABILITY: As is typical of epoxy finishes, will suffer reduced gloss through chalking on exterior exposures.
SOLVENTS: Unaffected by splash and spillage of common alcohols, aliphatic and aromatic hydrocarbons.
ACIDS: Resists exposure to mild acidic conditions.
ALKALIES: Excellent resistance to splash and spillage of most common alkalies.
SALTS: Unaffected by splash and spillage of neutral and alkaline salt solutions.
WATER: Excellent resistance to fresh and salt water.
ABRASION: Excellent.
TOXICITY: Dry film is non-toxic unless lead pigments are used. Lead free option are available in most colours.

TYPICAL PROPERTIES AND APPLICATION DATA:

CLASSIFICATION: Polyamide cured epoxy finish.
FINISH: Semi-Gloss
COLOUR: Flake Grey, Dove Grey, Cool Grey
REFERENCE: A&B, Tennis Court Red, Tennis Court Green, Light Blue and White.

COMPONENTS:
VOLUME SOLIDS: 55+4% (Vary with colour)
WEIGHT SOLIDS: 73+4
SPECIFIC GRAVITY: 1.35+0.05
FLASH POINT: 23°C (mixed)

THINNER: Epoxy Thinner
SHELF LIFE: 06 months min
POT LIFE: 8 hours at 25°C
MIXING RATIO: Parts A/Part B: 4/1 by volume.
SHADES:
PART A: 580-
pART B: 275-

WET FILM PER COAT: (70-80) Micrometers
DRY FILM PER COAT: (40-45) Micrometers
NUMBER OF COATS: 2 - 3
DRYING TIME AT 25°C
50% HUMIDITY
TOUCH MIN MAX
2 hours
16 hours
8-48 hours
FULL CURE 25°C

SUITABLE SUBSTRATES: Ssuitably prepared hard and compact concrete surfaces.
PRIMERS: Itself
TOPCOATS: Itself
APPLICATION METHODS: Brush, roller air or airless spray.

THEORETICAL SPREADING RATE AT RECOMMENDED DRY FILM THICKNESS

A spreading rate of (11-12) m²/litre corresponds to (45-40) micrometers dry film thickness assuming no losses on a non-porous and non-absorbent surface.
Practical spreading rates will vary depending on such factors as methods, conditions of application and surface roughness (profile).
**EPOXY FLOOR AND CONCRETE COATING**

**TYPICAL APPLICATION SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>SURFACE/CONC-RETE</th>
<th>PREPARATION</th>
<th>SYSTEM</th>
<th>DRY FILM THICKNESS</th>
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</thead>
<tbody>
<tr>
<td>FLOOR/CONC-RETE</td>
<td>New and old plaster/concrete surfaces are ensured to be sound, firmly adhering and free from dirt and grease. Etch glazed floors with dilute (10-15%) HCl before application.</td>
<td>IST COAT: Epoxy Floor &amp;Concrete Coating</td>
<td>40 um</td>
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<tr>
<td></td>
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<td>2ND COAT: Epoxy Floor &amp;Concrete Coating</td>
<td>40 um</td>
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<td></td>
<td></td>
<td>3RD COAT: Epoxy Floor &amp;Concrete Coating</td>
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**SURFACE PREPARATION:**  
Epoxy Floor & Conc. Coating is a specialised coating and requires sound surface preparation to perform to its optimum. Do not use any incompatible material for filling the imperfections of the floor. Glazed floors should be etched with dil. Solution (10-15%) of HCl. Wash the etched floors with copious quantity of water and let it dry completely before application of the paint.

**APPLICATION:**  
Stir each component thoroughly before mixing. Add hardener to base in the ratio supplied and mix until uniform in colour and consistency. Allow to digest for 20 minutes before use to ensure colour consistency.

**ROLLER/BRUSH:**  
Apply two even coats of the mixed material. Addition of up to 50 mls per litre of Epoxy Thinner will ease application.

**CONVENTIONAL SPRAY:**  
Thin up to 100 ml per litre with Epoxy thinner mixing thoroughly before application.

**TYPICAL SET-UP:**
- De Vilbiss JGA 502 Gun: 704 Air Cap, FF Fluid Tip, FF Needle
- Iwata W70 Gun: 021 Air Cap; 021 fluid Needle; 021 Fluid Nozzle
- Pressure at Pot: 10-15 p.s.i.
- Pressure at Gun: 55-60 p.s.i.

**AIRLESS SPRAY:**  
Standard airless spray equipment such as Graco, Hermex, Binks or others using a 28:1 pump ratio, with a fluid tip of 475-525 micrometers (019'-021") and an air supply of 80-100 p.s.i. Thin if necessary with up to 50 ml per litre.

**OTHERS:**  
Rate of cure is dependent upon temperature. Do not apply at temperature below 10° C or at relative humidities above 85% or within 3°C of the Dew Point.

**CLEAN UP:**  
Clean up all equipment with Epoxy Thinner immediately after use.

**RECOATING AGED FLOOR & CONCRETE COATING**

<table>
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<tr>
<td>FLOOR/CONC-RETE</td>
<td>Abrade surface, clean from dust and foreign matter. Apply further coat of Epoxy Floor Coating to specified film thickness.</td>
</tr>
</tbody>
</table>

**SAFETY PRECAUTIONS:**  
Epoxy Floor & Concrete Coating is a two-pack solvent borne coating based on epoxy resin, polyamide curing agent, additives and pigments depending upon colour. Some colours may contain lead pigmentation. If the colour contains lead pigmentation then this paint present a danger to young children from eating the dried paint and should not be used on toys, furniture, or wherever there is a risk of the paint being swallowed by a child, or roofs used to collect drinking water, or any surface likely to come into contact with food.

**BEFORE USE:**  
Read "instructions for use" and any precautionary labels on containers.

**STORAGE:**  
Store as required for a flammable liquid in a bounded area under cover. Store in well ventilated area away from sources of heat or keep containers closed at all times.

**HANDLING:**  
As with any chemical, ingestion, inhalation, and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection should be worn where there is a risk of splashes entering the eyes.

**USING:**  
Use with good ventilation and avoid inhalation of vapour and spray mist. If risk of inhalation of spray mist exists, wear combined organic vapour respirator. When spray painting, users should comply with the provisions of the respective State Spray Painting Regulations.

**FLAMMABILITY:**
Epoxy Floor & Conc. Coating is highly flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fight fire with foam, CO₂, dry chemical powder. On burning will emit toxic fumes.

**WELDING:**  
Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

**EMERGENCY TREATMENT:**
- **EYES:** Irrigate with copious quantities of water for fifteen minutes. Seek medical assistance if effect persists.
- **SKIN:** Remove paint using proprietary industrial skin cleanser. Wash skin thoroughly with soap and water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.
- **INHALATION:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
- **INGESTION:** Give water to drink. DO NOT induce vomiting. Seek immediate medical assistance.

**PACKING**  
Available in 5 litres packs (Part A 4.0L+Part B 1.0L)

All information contained in this Data Sheet is as accurate and up-to-date as possible. Products can be expected to perform as indicated in this Sheet, so long as applications and application procedures are as recommended. However there are no expressed or implied warranties other than those implied mandatory by State.