

ELASTOGUARD PU

Polyurethane Resin Deck Floor Coating

Composition and Application Field

ELASTOGUARD PU is liquid applied two component high solid aliphatic polyurethane content. **ELASTOGUARD PU** is a multi-layer tough flexible coating system as waterproofing and traffic deck coating. **ELASTOGUARD PU** complies with ASTM C-957, ASTM D-1499, ASTM D-903, ASTM D412, ASTM D-624.

Advantages

- High impact resistance
- UV resistance
- Waterproofing coating
- High abrasion resistance
- Low VOC
- Provides hygienic – impervious finish.
- Elastomeric flexible coating.
- High chemical resistance.
- Applicable to apply on steel structures.
- Available in wide range of colors.

Surface Preparation

All surfaces should be clean, dry and free from dust and other contaminants. We substrates should be used sponge dried to remove all surface water, then dried. Treat oil or grease contamination should be removed by degreaser followed by water or steam cleaning. **New concrete floors** should be at least 28 days and have a moisture content of less than 5%. Excessive laitance should be removed by mechanical method. **Old concrete floors** damaged areas or surface irregularities should be repaired by using EPMORTAR FC two component fast curing epoxy mortar (Refer to TDS). **Steel surface** should be grit blasted then clean by solvent and kept to dry. **Epoxy Screeds** high spots or trowel marks should be rubbed down and remove dust and debris by vacuum cleaning then repair it by using EPOSCREED 10 three component epoxy screed (Refer to TDS). **Steel surface** should be grit blasted then clean by solvent and kept to dry. Priming: All substrate should be coated by epoxy primer e.g. PRIME EPS (two components solvent base epoxy primer, (refer to TDS).

Mixing

The entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly for at least 3 minutes. Use of heavy duty slow speed power drill with a jiffy mixing blade. Mix the two components in the quantities supplied taking care to ensure hardener container is scraped clean. Do not add solvent thinners at any time.

Application Method

PRIME 100 (is two component solvent free epoxy primer) should be applied on prepared concrete surface at 0.15 liter/m², broad cast Silica Sand (0.25 – 1.00 mm) at rate 1 kg/m² while **PRIME EP100** coat is wet if anti-slip finishing is required. **ELASTOGUARD PU** is recommended to apply in two coats at rate of (0.3 – 0.5) liter/m² per coat. **ELASTOGUARD PU** can be applied by using airless spray or roller.

Ensure that the area is completely coated. Applicator can use spiked shoes and confirm that all area completely covered. The second coat can be applied after 12 to 18 hours at 35°C. Permeations: **ELASTOGUARD PU** system should be applied at relative humidity not more than 85% at 35°C. Don't use the system near of naked flame.

Cleaning

Tools and equipment can cleaned immediately by using THINNERCOAT 10 organic solvent.

Package

16 litr pack (including colored base and hardener)

Technical Properties

Mixed Density	1.35 + 0.05														
Solid Content ASTM D 2823 - 91	90 % ± 1 (by weight)														
Tack Free Time	10°C to 35°C														
Pot Life	45 hours at 35 °C.														
Initial Curing	25 hours at 35 °C														
Full Cure	7 days at 35 °C														
Water absorption ASTM D-471	< 0.5 %														
Shore A Hardness ASTM D 2240 - 91	80														
Tear Resistance ASTM D 624	25 N/mm ²														
Tensile Strength ASTM D-412	8.5 N/mm ²														
Elongation ASTM D-412	200 % at break														
Abrasion Resistance (ASTM D 1044-85)	0.09 mg/cycle														
Chemical Resistance:	<table border="1"> <tbody> <tr> <td>Gasoline</td> <td>Excellent</td> </tr> <tr> <td>Petrol</td> <td>Excellent</td> </tr> <tr> <td>Diesel</td> <td>Excellent</td> </tr> <tr> <td>Engine Oil</td> <td>Good</td> </tr> <tr> <td>Kerosene</td> <td>Excellent</td> </tr> <tr> <td>HCl 10%</td> <td>Excellent</td> </tr> <tr> <td>Acetic 5%</td> <td>Excellent</td> </tr> </tbody> </table>	Gasoline	Excellent	Petrol	Excellent	Diesel	Excellent	Engine Oil	Good	Kerosene	Excellent	HCl 10%	Excellent	Acetic 5%	Excellent
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Storage and Shelf Life

Product should be stored at 25°C in dry conditions. 12 months in tightly closed container.

Flammability

ELASTOGUARD PU is nonflammable material. THINNERCOAT 20 so do not expose to naked flames during application..

Health and Safety

The application of material should be in good ventilation and avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of contact with eyes, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately. The product complies with environmental and occupational health & safety standards ISO 14001 and OHSAS 18001.