



# ELASTOGUARD PU

## Polyurethane Resin Deck Floor Coating

## Technical Data Sheet

### 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 D-412, ASTM D-624.

### Uses

**ELASTOGUARD PU** is heavy duty traffic floor coating suitable for use in car parking external areas, waterproofing in marine conditions, production assembly areas, workshops, dairies, soft drinks production and bottling plants, kitchens, showrooms and wet working areas.

**ELASTOGUARD PU** provides a hard wearing, easily cleaned and attractive floor coatings in areas where high resistance to chemical attack is required.

**ELASTOGUARD PU** is used as a top coat for concrete floors and as a finish coat for epoxy floor screeds to provide a more durable and easily cleaned surface where high impact is desirable.

### Advantages

- High impact resistance. UV resistance. Waterproofing coating.
- High abrasion resistant. Low VOC. High chemical resistance
- Provides hygienic – impervious finish 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. Wet substrates should be used sponge dried to remove all surface water, then dried. Treat oil or grease contamination should be removed 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. Dust and other debris should be removed by vacuum cleaning.

**Old concrete floors** damaged areas or surface irregularities should be repaired by using EPOMORTAR 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.)

### 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 (ratio base: hardener by weight is 2.125:1.00) 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/m<sup>2</sup>, broad cast Silica Sand (0.25 – 1.00 mm) at rate 1 kg/m<sup>2</sup> 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/m<sup>2</sup> 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.

### Precautions:

**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 be cleaned immediately by using **THINERCOAT 20** organic solvent.

### Package

16 liter pack (including colored base and hardener).

### Technical Properties

Mixed Density	1.35 + 0.05																
Solids Content ASTM D 2823-91	90% ± 1 (by weight)																
Tack Free Time	2 hours at 35°C																
Initial Curing	24 hours at 35°C																
Pot Life	45 minutes 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 Resistant ASTM D 624	25 N/mm																
Tensile Strength ASTM d 412	6.5 N/mm <sup>2</sup>																
Elongation ASTM D 412	200% at break																
Abrasion Resistance (ASTM D 1044-85)	0.09 mg/cycle																
Chemical Resistance: ASTM D1308	<table> <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>Good</td></tr> <tr> <td>Acetic 5%</td><td>Excellent</td></tr> <tr> <td>Brake fluid</td><td>Excellent</td></tr> </table>	Gasoline	Excellent	Petrol	Excellent	Diesel	Excellent	Engine Oil	Good	Kerosene	Excellent	HCl 10%	Good	Acetic 5%	Excellent	Brake fluid	Excellent
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### Storage and Shelf Life

Product should be stored at 25°C in dry conditions. 18 months in tightly closed container.

### Flammability

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

### Health and Safety

The application of materials 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 environment and occupational health & safety standards ISO 14001 and OSHA 18001.