

ELASTOGUARD PU

Polyurethane Resin Deck Floor Coating

DESCRIPTION

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.

USE

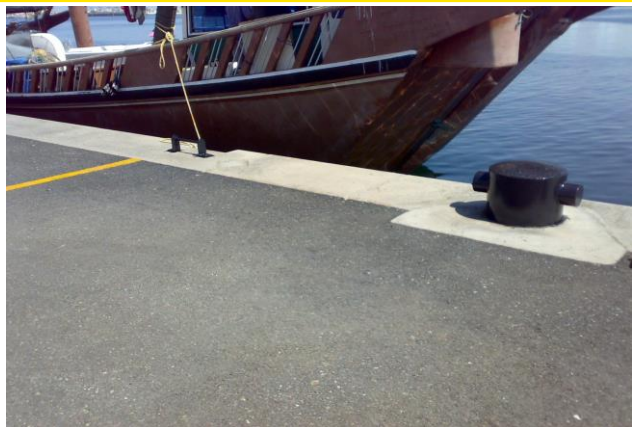
ELASTOGUARD PU is heavy duty traffic floor coating suitable for use in car parking external areas, waterproofing in marine conditions, production assembly areas, workshops, dairies, soft drinks production and bottling plants, kitchens, showrooms and wet working areas.

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 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. Wet 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.

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate and application, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RITVER Technical Service Department.

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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 taking care to ensure hardener container is scraped clean. Do not add solvent thinners at any time.

APPLICATION

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.

Percuations:

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 **THINNERCOAT 20** organic solvent.

PACKAGE

16 liter pack (including colored base and hardener)

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TECHNICAL PROPERTIES

Mixed Density	1.35 + 0.05																
Solid Content ASTM D 2823 - 91	90 % + 1 (By weight)																
Tack Free Time	2 hours at 35 0C.																
Pot Life	45 hours at 35 0C.																
Initial Curing	24 hours at 35 0C.																
Full Cure	7 days at 35 0C.																
Water absorption ASTM D-471	< 0.5 %																
Shore A Hardness ASTM D 2240 - 91	80																
Tear Resistance ASTM D 624	25 N/mm																
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 style="width: 100%; border: none;"> <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

Product should be stored at 25°C in dry conditions and keeping away from source of flame.

FLAMMABILITY

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

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Date Revised: 27th Jun 2015

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SHELF LIFE

12 months in tightly closed container.

HEALTHY 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.