



ResiGard PU

UV Resistant Polyurethane Coating
for Steel and Concrete

DESCRIPTION **ResiGard PU** is a two component, UV stable, high quality acrylic polyurethane based protective, wear resistant coating.

USES **ResiGard PU** can be applied on variety of surfaces including concrete, steel and fully cured epoxies. It is recommended in areas requiring chemical resistance, protection against UV rays and areas exposed to aggressive environment such as marine structures, pharmaceutical units, car park decks, battery rooms, textile industry, poultry farms, electronics manufacturing units, etc.

ADVANTAGES

- Protection against UV rays
- Can be applied on fully cured epoxies
- Excellent wear resistance
- Resistance to a wide range of chemicals
- Smooth seamless even finish
- Available in transparent and pigmented versions

TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
Component	-	Two : Part A - Base Part B - Hardener
Mixed Form	-	Liquid
Colour	-	Various colours available
Mixed Density	ASTM D1475	1.00 kg/ltr +/-0.02 (Clear & Matt)
		1.30 kg/ltr +/-0.02 (Pigmented)
Pot Life	-	3 hrs +/- 0.5 (Clear & Matt)
		60 mins +/-10 (Pigmented)
Surface Dry	-	5-6 hrs (Clear & Matt)
		3-4 hrs (Pigmented)
Recoat Time	-	8-24 hrs
Application Temperature	-	+5°C to +40°C
Chemical Resistance	ASTM D543	Resistance to various chemicals like mild acids, alkalis, fuels, grease, petrol, etc
Bond Strength	ASTM D 4541	> 1.5 N/mm ²
Service Temperature	-	+5°C to +70°C
VOC	-	620 gm/ltr (Clear)
		285 gm/ltr (Pigmented)



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SURFACE PREPARATION	<p>The surface should be sound, dry and free from all contaminants. Appropriate surface preparation equipment such as shotblast, scarifier or grinder must be used to obtain sound substrate. Steel surfaces should be gritblasted to base metal. Surfaces which any show traces of oil must be degreased with a chemical degreaser prior to gritblasting. Cracks, pinholes, potholes, etc. should be repaired with epoxy putty ReCon FCE.</p> <p>Uneven concrete should be levelled to produce a roughened flat surface. Undulated floors can be levelled / repaired using ResiGard ES / ResiGard RS5 / TekniFloor SLS10 prior to application of ResiGard PU. New concrete floors must be at least 28 days old prior to application. Moisture content of concrete floor must be less than 5%. Expansion, control and isolation joints in concrete should be carried through ResiGard PU floors and filled with a suitable sealant from the SealXtra range. Fully cured old epoxy floor surfaces should be cleaned thoroughly using an appropriate solvent.</p>
PRIMING	<p>Prepared surface should be primed with ResiGard Primer or ResiGard PU (clear). The primer should be brushed into the substrate using a stiff brush or roller and allowed to dry (minimum 12-16 hrs) before the application ResiGard PU. In case of extremely porous substrates, two coats of primer is recommended. Allow the first coat to dry before applying the subsequent coat. The primer coat needs to be to completely dry before applying ResiGard PU. If the surface is damp, it is preferred to use ResiGard MB as primer coat which cures with the inherent moisture and will not adversely affect the adhesion of the topcoat. Primer is not required over ResiGard range of epoxy coatings.</p>
MIXING	<p>ResiGard PU is supplied in two containers as pre-measured units. Stir base and hardener component separately. Using a slow speed drill machine fitted with a paddle, mix both the components for at least 3 minutes to obtain a uniform mix. Part mixing should be avoided.</p>
APPLICATION	<p>ResiGard PU, once mixed, should be used within the working pot life. Apply the material with a suitable squeegee, stiff nylon brush, or roller working the ResiGard PU into the surface to ensure total absorption. Minimum of two coats should be applied to achieve desired result. The second coat should be applied at right angles to the first to get the desired dry film thickness. For application by airless spray, use a 45:1 or a higher ratio pump, minimum 9 mm dia hoses and HD tip 19-23 thou. Airless spray will provide faster rate of application.</p>
LIMITATIONS	<p>At higher temperatures pot life will be reduced.</p> <p>For working in cold climates (<5°C) ResiGard PU containers need to be kept in a hot water bath.</p>
PACK SIZE	<p>6 ltr and 10 ltr set for ResiGard PU (Clear) 5 ltr and 10 ltr set for ResiGard PU (Pigmented)</p>



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COVERAGE

ResiGard PU (Clear) : 8-10 m²/ltr/coat at 100 microns wft (50 microns dft)
ResiGard PU (Pigmented) : 4-6 m²/ltr/coat at 180 microns wft (100 microns dft)
 Actual consumption depends on texture and porosity of substrate.

GENERAL INFORMATION

Shelf Life 12 months from date of manufacture when stored under warehouse conditions in original unopened packing.
 Extreme temperature / humidity may reduce shelf life.

Cleaning Clean all equipment and tools with **Conmix Cleaner** immediately after use.

HEALTH and SAFETY

PPE's Gloves, goggles and suitable mask must be worn.

Precautions Contact with skin, eyes etc. must be avoided. If swallowed seek medical attention immediately.

Hazard Regarded as hazardous for transportation.

Disposal Do not reuse containers. To be disposed off as per local rules and regulations.

Additional Information Refer MSDS. (Available on request)

TECHNICAL SERVICE

CONMIX Technical Services are available on request for onsite support to assist in the correct use of its products.

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