

Top Gard PU Enamel

Polyurethane Wall Protection Coating

Premium Grade All Weather Resistance, High Performance External & Internal Wall Protection Coating. To Prevent High ph, Fungus & Corrosion Penetrations

For Building, Jetty & Bridges Reinforcement Concrete Wall & Plaster Wall Surfaces.

Polyurethane Enamel Polymer

No Toxicity & Solvent-Free

Uses

Top Gard PU Enamel is a liquid, cold-applied seamless protection coating, for concrete wall, plaster wall, natural slate/stone, aluminium and steel surfaces, which provides superior protection against the penetration and lateral movement of water. It comes in a variety of grades for different types of applications.

Use **Top Gard PU Enamel** above grades between single-course concrete, between masonry constructions. Uses include almost any application where migrant or stationary water is an actual or potential problem, such as parking garages, plaza decks, shower stalls, bridges, mechanical rooms, fountains, wet rooms, bridge highways, for high-rises, walls, culverts, around drains, dams, reservoirs, concrete tanks, and other similar areas that require superior protected.

Type

Top Gard PU Enamel is a two component moisture-curing, pure Isocyanate/Polyol Polyurethane Resin coating specially formulated for hand application by roller or spray to vertical and horizontal surfaces. It is applied directly from the container and requires for mixing system.

ADVANTAGES

- Permits nominal expansion and contraction without losing bond to the substrate, Maintains flexibility.
- Protects structurally sound, occupied area from water penetration, and Superior water repellency, glossy or Special Semi-Mat.
- Contains no external plasticizers, excellent low temperature flexibility.
- Demonstrates excellent resistance to bacterial attack and the deteriorating effects of many acids alkalizes & chemical
- Eliminates elaborate surface preparation, costly time-consuming lapping, seaming, and precutting.
- When properly applied, **Top Gard PU Enamel** offers unparalleled economy and protection.

Available of Color

Standard Color: White Base only

For color choice, please refer Global Color Paste Pigment, Examples Jotun, I C I & Nippon Sky Blue, Yellow, Orange, Red, Green, Black, Pink & Brown

Thickness Require

Wall Surface: 0.10 to 0.15 mm

Estimating Data

The minimum recommended coverage of **Top Gard PU Enamel** is 0.15-0.20 kg/m² to get 0.10mm to 0.15 mm thick film build.

Packing:

25 Kg Pail or 20 Kg Pail & Other packing

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PROPERTIES OF SPECIFICATION (Worldwide Standard System)

Test Data Property	Top Gard PU Enamel Metallic	Top Gard PU Enamel Std	
Density (gm/cm ³)	>1.15 (±0.05)	>1.28 (±0.05)	
Shore A hardness	HB	HB	ASTM-D-2240
Tensile strength, psi	145 (±15)	145 (±15)	ASTM-D-412
Elongation at Break %`	65	63	ASTM-D-412
Minimum recovery %	98	98	
Service temp, range	-40 °F until 150 °F	-40 °F until 150 °F	
Weather meter	No cracking	No cracking	ASTM-G-26
Transmission, per inches	0.18	0.18	ASTM-E-96
Wind-drive rain [98 mph]	pass	pass	TT-C-555 B
Flame Spread	5* Excellent	5* Excellent	ASTM-E-84
Smoke Density	5* Excellent	5* Excellent	ASTM-E-84

Remark: 1* Not suitable, 2* Suitable, 3* Good, 4* Very Good, 5* Excellent

Fungus and Mildew Resistance Film totally absent of growth after testing

Method of Application Surfaces should be structurally sound, clean, and free from loose particles, oil, grease, or any other contaminants. Cement laitance, loose particles, mould release agents, curing membranes, and other contaminants must be removed by wet grit blasting, high pressure water jetting (approx. 150 bars) or such other effective methods. Fill surface irregularities such as below holes, honeycombs etc., with as **Cem Strength** repair mortars to achieve a smooth and level surface. Saturate the prepared substrate with clean water before applying Epoxy Water Base Primer **Epo Bond WFC Primer**

Placing It is extremely important that the area being treated is shaded from direct sun rays and wind to prevent rapid drying of the coating. Apply **Top Gard PU Enamel** evenly with a stiff brush, roller or by a spray, onto the prepared surface, to give a continuous film. The total film build up should be 0.10 to 0.15 mm on vertical & overhead surfaces and 0.08 to 0.10mm in case of horizontal surfaces which should be built up in at least two coats, applied one day apart. To avoid pin holes, apply the second coat at right angles to the direction of first coat. In hot climates, it may be necessary to retard the setting time of **Top Gard PU Enamel** to minimize the risk of frequent choking of the spray nozzle.

Handling Precautions

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure "Hygienic Precautions for Handling Plastic Products"

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Health & Safety Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **LAMACO Malaysia** on request and sent with each delivery.



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