



**For the Builders
of a Better World™**

Guard PU

Polyurethane coating is a pigmented or transparent; available in gloss and matt finish, ready to use solvent base two components based on high quality polyester branched polyurethane resin.



FEATURES/BENEFITS

- Seamless, monolithic application
- Hygienic, easy to clean.
- High chemical resistance to wide range of chemical.
- Abrasion resistance, against light or high traffic and trolley movement
- Hard wearing floors.
- Wide range of colors.

USES

- Areas with light, medium and high traffic.
- Interior and exterior use
- Hard ware areas such as Industrial and commercial floor and wall, carpark decks, garages, warehouse, pedestrian areas, laboratories, electronic clean room, pharmaceutical, refineries, printing pulp paper, mills, bridge tunnel, roofing and other industrial plants sectors where chemical resistance are required.

MANUFACTURER/ DISTRIBUTED BY

LATICRETE South East Asia Pte Ltd
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Internet: se.laticrete.com

STANDARDS/CERTIFICATIONS

- ASTM D4541
- ASTM D4060
- BS476:Part 6: 1989+A1:2009
- ASTM E96/E96M-10

Suitable Substrates

Over Concrete

Packaging

Gloss finish — Part A (4.5kg) : Part B (1kg)

Matt finish — Part A (4.5kg) : Part B (1kg)

Coverage

One set of Guard PU yield a coverage of approximate 42m² at 0.1mm thickness applied per coat.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year* if stored off the ground in a dry area, at temperatures $\geq 0^{\circ}\text{C}$ and $\leq 40^{\circ}\text{C}$ in a covered area (out of the sun). Material should be kept in a cool dry place prior to application. Do not allow to freeze.

Limitations

- This is a product of Industrial use and not domestic. It should only be applied by personnel with an adequate sense in the appropriate methods of application and handling of the product. Not applicable on asphalt floor, tiles, clay brick, copper, aluminum, wood floors or urethane-derived compositions such as elastomeric membranes, composite polyester fibers, PVC membranes. Do not apply to porous surfaces where the water vapor stream may be present during application. Do not apply to surface with water or completely moist. Do not apply over concrete and moisture is greater than 10%.
- Actual color shade, and texture may vary due to job site conditions, installation technique and raw material. The colors of cured material may not match and in some cases differ considerably between the actual colors achieved on site. No responsibility can be accepted once the products have been applied. Rest assures that essential controls are taken during the production of the product colors.
- Color and gloss retention of the coating finish may vary depending on type of color, subject to environmental exposures such as temperature, UV intensity, chemical spills, application quality and generic type of resinous finish. Contact LATICRETE Technical representative for further information.

Cautions

Before using any LATICRETE product:

Check se.laticrete.com for any technical bulletins or updated information about the product and its application.

Consult MSDS for more safety information.

TECHNICAL DATA

Performance Properties

Test	Test Method	Results
Adhesive Strength	ASTM D4541	$\geq 1.5\text{N/mm}$ (Concrete Failure)
Abrasion Resistance	ASTM D4060	1,000 cycle weight loss 5mg
Water Permeability	Karsten Test	Impermeable
Taber Abraser Wear Index in mg/1000 revolutions/1kg	ASTM D 4060	37.0 mg
Fire Propagation Index (I)	BS476:Part 6: 1989+A1:2009	≤ 2.0
Water Vapor Transmission,	ASTM E96/E96M- 10	$\pm 1.23\text{ g/hr.m}^2$

Working Properties

Density	1.3 $\pm$ 0.05g/ml
Pot life (working time)	
30 °C	2 hours
Recoating time (30 °C)	Minimum 5-6 hours Maximum 48 hours
Curing time (32 °C)	
Human Traffic	20 hours
Light Traffic	24 hours
Fully Chemical Cure	7 days

Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

INSTALLATION SYSTEM

Surface Preparation

The recommended surface temperature during application is typically between 5°C to 40°C. Substrate concrete or screed should be a minimum of compressive strength 25N/mm² and adhesive pull-off strength of minimum 1.5N/mm². The substrate should be clean and free from laitance, oil, dust, loose constituents, paint residues, chemicals, algae and other contamination should be removed. The substrate should be dry and free from ground water pressure. The substrate must be prepared by vacuum shot blasting, rough contaminations to remove by grinding. Cracks and hollows should be properly remedied. Prepare grooves 3mm wide x 3mm deep at all edges, bay joints columns, doorways and drains for anchoring purpose.

Application conditions

Do not apply when the relative humidity exceeds 90% or when the surface to be coated is less than 5% above the dew point.

Do not apply temperatures below 5°C and temperatures above 40°C

Mixing

Stir Part A (4.5kg) mix for 30seconds by using a suitable electrical stirrer (with 750 RPM high power mixer), then add all of Part B (1kg, Hardener) and mix both liquid parts thoroughly for one minute until it fully achieved a homogeneous.

Application

By rolling, brushing or spraying. As finish we recommended to roll in one direction back roll with a wide short-pile mohair roller.

AVAILABILITY AND COST**Availability**

LATICRETE and LATAPOXY materials are available worldwide. For distributor information, call:

Telephone: (65) 6515-3028

Fax: (65) 6515-3037

For on-line distributor information, visit LATICRETE at se.laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

WARRANTY

LATICRETE South East Asia Pte Ltd warrants that Guard PU is free from manufacturing defects and will not to break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to terms and conditions stated.

MAINTENANCE

The long term performance, appearance, and life expectancy of wear surface products are critically dependence upon a good routine maintenance regime designed specifically for the installed wear surface.

TECHNICAL SERVICES**Technical Assistance**

Information is available by calling:

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(Level 2, A3)

Singapore 729245

Telephone: (65) 6515-3028

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Email: enquiry@laticrete.com.sg

Technical and safety literature

To acquire technical and safety literature, please visit our website at se.laticrete.com

Disclaimer

LATICRETE is not responsible for product use beyond its intended application. Liability is limited to replacing defective materials. We are not responsible for any loss or damage resulting from improper use. Product specifications are subject to change without notice. For the most up-to-date information, please visit our website at se.laticrete.com.