



## Guard PU

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

Globally Proven  
Construction Solutions



### 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  
No. 38 Sungei Kadut, Street 2 (Level 2, A3) Singapore 729245  
Telephone: +65 6515 3028 Fax: +65 6515 3037  
Internet: [se.laticrete.com](http://se.laticrete.com)

### STANDARDS/CERTIFICATIONS

- ASTM D 4060-10
- BS476:Part 6: 1989+A1:2009
- ASTM E96/E96M-10

## Suitable Substrates

Over Concrete

## Packaging

Gloss finish — Part A (4kg) : Part B (1kg)

Matt finish — Part A (5kg) : Part B (1kg)

## Coverage

One set of Guard PU yield a coverage of approximate 42m<sup>2</sup> (for Gloss Finish) and 46m<sup>2</sup> (for Matt Finish) at 0.1mm thickness applied per coat.

## Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for 12 months if stored off the ground in a dry area, at temperatures 10°C - 30°C.

## 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](http://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

Density	1.3±0.05g/ml
Pot life (working time)	
30 °C	2hours
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
Adhesive Strength	>1.5N/mm (Concrete Failure)
Abrasion resistance	1,000 cycle weight loss 5mg
Water Permeability	Ni-Karsten test (impermeable)
ASTM D 4060-10 Taber Abraser Wear Index in mg/1000 revolutions/1kg	37.0 mg
BS476:Part 6: 1989+A1:2009 (Fire Propagation Index (I) )	<2.0
ASTM E96/E96M-10 Water Vapor Transmission, g/hr.m <sup>2</sup>	±1.23

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

## INSTALLATION SYSTEM

### Surface Preparation

Substrate concrete or screed should be a minimum of compressive strength 25N/mm<sup>2</sup> and adhesive pull-off strength of minimum 1.5N/mm<sup>2</sup>. 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 mix for 30seconds by using a suitable electrical stirrer (with 750 RPM high power mixer), then add all of Part B (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](http://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:

LATICRETE South East Asia Pte Ltd

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(Level 2, A3)

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Technical and safety literature

To acquire technical and safety literature, please visit our website at [se.laticrete.com](http://se.laticrete.com)