



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

Guard EP

Guard EP is a 100% solids, two-part epoxy resin coating. It is specially formulated to provide a durable coating system. It is also available in a range of colours to enable colour coding and identification.



FEATURES/BENEFITS

- Solvent Free
- Highly fillable
- Easy application
- Water resistance
- Good chemical and mechanical resistance
- Gloss finish
- Slip resistant surface possible
- Dustproof



USES

- Floor protection against mild acids, alkalis & mineral oil
- System for concrete and cement screeds with normal up to medium heavy wear
- Parking decks, industrial floors, warehouse & light traffic areas
- For wet process areas, e.g in food industry, beverage industry

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

STANDARDS/CERTIFICATIONS

- | | |
|-------------------|-------------------------|
| ▪ ASTM C579 | ▪ ASTM C882/C882M:2013a |
| ▪ ASTM C580 | ▪ BS EN ISO 7783:2001 |
| ▪ ASTM D4541:2002 | ▪ SS 485:2001 ANNEX A |
| ▪ ASTM C2240:2015 | ▪ BS 476:Part 7:1997 |
| ▪ ASTM D4060:2014 | ▪ Darcy's Theory |
| ▪ ASTM C307 | |

Packaging

Part A - 20kg

Part B - 5kg

Approximate Coverage

One set of Guard EP yield a coverage of approximate 121m² at 0.15mm thick per coat.

Estimated consumption of Guard EP depending on the surface absorption, roughness, loss and wastage.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for twelve (12) months if stored at temperatures $\geq 0^{\circ}\text{C}$ and $\leq 40^{\circ}\text{C}$. Material should be kept in a cool dry place prior to application. Do not allow to freeze.

Colors

Refer to colour chart

Limitations

- 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**FOR PROFESSIONAL USE ONLY**

- Thoroughly read all technical data sheets, application guidelines, warranty disclaimers and Safety Data Sheets (SDS) prior to use.
- Wear safety eye protection when applying. Contact with eyes may cause irritation. Flush eyes with water for 15 Minutes, if symptoms persist seek medical attention.
- Wear safety gloves.
- Until cured, may irritate eyes and skin. Avoid contact with eyes and or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Material should be kept in a cool dry place prior to application
- Product must not freeze.

Mock-ups and field test areas are required in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti-dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction,

etc.) to ensure system performance as specified for the intended use, and to determine approval of the decorative flooring system.

TECHNICAL DATA**Performance Properties**

Test	Test Method	Results
Compressive Strength (Std Conditions)	ASTM C579	$\geq 50 \text{ N/mm}^2$
Flexural Strength (Std Conditions)	ASTM C580	$\geq 30 \text{ N/mm}^2$
Pull-Off Adhesion Strength	ASTM D4541:2002	$\geq 2.5 \text{ N/mm}^2$
Shore D Hardness	ASTM D2240:2015	$\geq 80\text{D}$
Taber Abrasion	ASTM D4060:2014	$\leq 46\text{mg}$
Tensile Strength	ASTM C307	$\geq 15 \text{ N/mm}^2$
Bond Strength by Slant Shear	ASTM C882/C882M:2013a	$\geq 17.5 \text{ N/mm}^2$
Water Vapor Diffusion Resistance	BS EN ISO 7783:2001	II (Medium)
Slip Resistance by Wet Pendulum Test Method	SS 485:2001 ANNEX A	Classification X
Surface Spread of flame	BS 476:Part 7:1997	Class 2
Coefficient of Water Permeability	Darcy's Theory (HDB Test Method)	0 k(m/s)

Working Properties

Dry Film Thickness	0.15 mm per coat	
Pot Life	45 Minutes	
Recoat Time	5 – 6 hours	
Time to Light Traffic	24 hours	
Full Cure	7 days	
Mixing Ratio	4 Part A; 1 Part B by weight	
	Part A	Part B
Supply form	liquid	liquid
Colour	Coloured	Transparent
Density	1.41kg/ℓ	

Technical data shown in product data sheets are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance and test results will depend on installation methods and site conditions. Field test results will vary due to critical job site factors. All recommendations, statements and technical data contained in this data sheet are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not be construed as a warranty or guaranty of any kind. Satisfactory results depend upon many factors beyond the control of LATICRETE South East Asia Pte Ltd. User shall rely on their own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from their direct use, indirect use or consequential to their use of the product. LATICRETE shall not be liable to the buyer or any third party for any injury, loss or damage directly or indirectly resulting from use or inability to use the product.

INSTALLATION

Surface Preparation

The recommended surface temperature range during application is typically between 5°C to 40°C. Assure substrate to be coated is clean, dry, and in sound condition. All laitance, curing compounds, concrete hardeners, and other surface contaminants must be removed. Shotblast or grind areas to be coated. Patch and level depressions and protrusions on the substrate.

Mixing

Mechanical mixing is required for Guard EP. A low speed drill mixer is recommended. Stir component A & B individually first for about 30 seconds. Mix 1 component part B slowly and add 4 component part A. Continue to mix for 2 — 3 minutes. Mix until the mixture is lump free and is of even colour. Use the mixture within 45 minutes.

Application

Apply the coating by brush, medium pile roller or airless spray in 2 to 3 coats, the 2nd and 3rd coat applied after the initial coat has achieved touch dry of a minimum 6hrs.

Curing

Guard EP is self-curing. The curing time is depending on the ambient temperature, humidity and the quantity mixed and placed. Under normal circumstances initial curing will take place overnight. The coating will fully be cured in 7 days.

AVAILABILITY AND COST

Availability

LATICRETE® 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

Subject to the conditions and limitations stated below, LATICRETE South East Asia Pte Ltd warrants that its products will be free from manufacturing defects and will not break down or deteriorate under normal usage for a period of one (1) year from the date of purchase when installed in accordance with the written specifications of LATICRETE and industry standard guidelines.

MAINTENANCE

The long term performance, appearance, and life expectancy of wear surface products are critically dependence upon a good routine maintenance program designed specifically for the installed wear surface. Epoxy floor coating systems are nonporous, causing dirt and contaminants to remain on the surface. The use of properly placed walk-off mats, inside and outside, will help increase the life of the floor.

Recommend maintenance program consist on frequent and through cleaning utilizing a neutral pH cleaner (e.g. Simple Green®). Frequency of washing will vary depending on floor usage type, traffic and age.

TECHNICAL SERVICES/ CONTACT

Technical Assistance

Information is available by calling:

LATICRETE South East Asia Pte Ltd

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(Level 2, A3)

Singapore 729245

Telephone: (65) 6515-3028

Fax: (65) 6515-3037

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.