Globally Proven
Construction Solutions

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
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Internet: se.laticrete.com

STANDARDS/CERTIFICATIONS

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

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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
12 months unopened. Store at 5°C-30°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.

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

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	

Test	Test Method	Results
Compressive Strength (Std Conditions)	ASTM C579	>50 N/mm²
Flexural Strength (Std Conditions)	ASTM C580	>30 N/mm²
Pull-Off Adhesion Strength	ASTM D4541:2002	>2.5 N/mm²
Shore D Hardness	ASTM D2240:2015	>80D
Taber Abrasion	ASTM D4060:2014	<46mg
Tensile Strength	ASTM C307	>15 N/mm²
Bond Strength by Slant Shear	ASTM C882/C882M:2013a	>17.5 N/mm²
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)

Specifications are subject to change without notification. 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
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. Shot-blast or grind areas to be coated. Patch and level depressions and protrusions on the substrate.

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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 achieve 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:

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

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