



Guard EA

Guard EA uses novel hybrid technology to create a two-component polymeric coatings that offers excellent UV resistance properties, rapid dry and reduced cure time.

Globally Proven
Construction Solutions



FEATURES/BENEFITS

- Low viscosity, easy-to-apply
- Low odour application
- Longer pot life
- Faster return to service
- Good chemical resistance
- Non-staining finish
- Hot/cold tire pick-up resistance
- Durability
- Positive slip resistance applicable
- Good abrasion resistance
- Excellent UV resistance
- Inhibiting growth of micro-organism
- Good mechanical performance

MANUFACTURER/ DISTRIBUTED BY

LATICRETE South East Asia Pte Ltd (Level 2, A3)
No. 38 Sungei Kadut, Street 2, Singapore 729245
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USES

- Interior and exterior (floor and wall, new and retrofit project)
- Public buildings (school, office building, hospital, stadium)
- Light to Medium industrial floors
- Storage
- Traffic decks
- Service roof
- Garages

STANDARDS/CERTIFICATIONS

- ASTM D4541-09e1
- ASTM D4060:2014
- ISO 2812-4: 2007
- ASTM D5420: 2004
- ISO 2812-2: 2007
- ASTM G62: 2000
- RP-0188: 1999
- ASTM B117: 2016
- ASTM G154: 2016
- SS 485: 2011

This product has been certified green under Singapore Green Building Council.



Packaging

Part A - 10kg

Part B - 10kg

Approximate Coverage

One set of Guard EA yield a coverage of approximate 160 m² at 0.12 mm thick per coat

Estimated consumption of Guard EA 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

Christmas Red, Azure Blue, Pure White, Off White, Atlantic Grey, Cadet Grey, Paver Grey, Cosmic Yellow, Mighty Green, Mystic Black, Crimson Red, Sail Blue, Ultimate Grey, Amber Grey, Tank Grey, Emerald Grey, Clear Coat

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**Physical & Working Properties**

Physical Properties	
Wet Film Thickness	0.12 mm per coat
Pot Life	1-2 hour
Recoat Time	1 hour
Time to Foot Traffic	6 hours
Time to vehicular traffic	12 hours
Full Cure	7 days
Mixing Ratio	1 Part A; 1 Part B by weight

Test	Test Method	Results
Pull-Off Adhesion Strength (Concrete)	ASTM D4541-09e1	>2.5 N/mm ²
Pull-Off Adhesion Strength (Asphalt)	ASTM D4541-09e1	>0.7 N/mm ² (Substrate Failure)
Abrasion Resistance (1000 cycles)	ASTM D4060:2014	<35 mg
Slip Resistance (wet)	SS 485: 2011	>39 BPN
Slip Resistance (dry)	SS 485: 2011	>0.73μ
Salt Spray Resistance	ASTM B117: 2016	Unaffected
QUV Accelerated Weathering (1000 hrs)	ASTM G154: 2016 (UVA-340)	Unaffected
Water Immersion (500 hrs)	ISO 2812-2: 2007	Unaffected
Impact Resistance	ASTM D5420: 2004	1.79kg-m
Chemical Resistance	ISO 2812-4: 2007	Unaffected
Holiday Test	RP-0188: 1999	No Detection of Pinholes
Surface Spread of Flame	BS 476: Part 7	Class 1

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

Suitable substrates/Surface

Suitable substrates such as concrete (G30), polymer modified screed, resinous surfaces etc. The substrate should have a minimum cohesive strength of 1.5 N/mm², free from laitance, loose adherent, oils, grease and previous sealer, curing compound which might have adverse effect to the bonding of the subsequent coating finish.

Surface Preparation

Prepare surface by mechanical grinding or scrubbing with diamond grit 80 – 100 is recommended to achieve CSP 2 in according to ICRI Technical Guide 310.2, SSPC – 13 or where appropriate. The prepared surface should be free from oils, grease or adhesion barriers, cracking, pores or bug holes etc.

Mixing

Mechanical mixing is required for Guard EA. A low speed drill mixer is recommended. Stir component A & B individually first for about 30 seconds. Mix part B slowly and add in part A. Continue to mix for 2 - 3 minutes. Mix until homogenous in colour. Cover unused mixture tightly and use within 2 hours. Always stir before use. DO NOT add in other liquids in to the mixture.

Application

Recommended tools for applications - rubber squeegee, medium pile roller or sponge roller and brushes. Surface temperature should be at 5°C to 35°C and atmospheric relative humidity should be below 90% during the application. Thinning is strictly not recommended as it will compromise the optimum performance of the material.

Curing

Guard EA 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 an hour after application. The coating require 7 days for full chemical curing.

Safety, Health and Environment Impact

Working crew is strongly recommended to wear appropriate personal protective equipment such as chemical glove, breathing device, safety goggle, to avoid contact with the chemical during the application. Sufficient ventilation is essential during the application for enclosed facilities in particular.

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. Anti-slip textured epoxy floor coating systems might trapped dirt and contaminants onto 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