



# GUARD PU HS

Two component, UV resistant High build Polyurethane binder

GUARD PU HS is a specially designed high build polyurethane binder for stone carpets and decorative colour chips/ flakes flooring system meant for industrial, commercial, and residential areas where greater resistance to abrasion, chemicals, and non-yellowing for exterior areas is required.



## FEATURES/BENEFITS

- Hard wearing
- Excellent chemical-resistant
- UV resistant
- Abrasion resistant

## MANUFACTURER

**LATICRETE Middle East LLC.**  
 P.O. Box. 86028, Ras Al Khaimah  
 United Arab Emirates  
 Toll Free (within UAE) 800 5632  
 Telephone: + 971 7 244 6396  
 Fax: + 971 7 244 5915  
[www.laticrete.me](http://www.laticrete.me)

## USES

- Pool landscape areas
- Walkways and external concourse areas
- Garages
- Food court, Resorts, Parks etc.
- Pavements
- Parking decks

### Suitable Substrates

- Concrete, Cement board, Calcium silicate board, Steel, and EGP.

### Packaging:

Guard PU HS is supplied as two components: Part A & Part B.

Two Units: 2 x 4.5 Liter Set in Carton.

### Approximate Coverage

1:8 to 1:10 parts of Binder: Aggregates, depending upon the size and absorption of aggregates.

*Note: A mockup is recommended to determine the final mixing ratio of the binder: aggregates and the desired finish.*

### Shelf Life

9 months from the date of production if stored properly in original, unopened, and undamaged sealed packaging,

### Limitations

Substrate and air temperature must be between 10°C(50°F) and 35°C (95°F). The substrate temperature must be 3°C (5°F) above the dew point.

*Note: Prior to application, sound out the existing substrate to identify any hollows or non-solid areas. All non-solid concrete should be removed and repaired. The finished product must be applied over sound, solid, and suitable substrate. Check the substrate compatibility during mockup.*

### Cautions

#### Health and Safety

- Follow the warning signals in packaging & SDS
- Wear protective gloves, clothing, safety shoes, and eyewear.
- May cause skin irritation
- May cause an allergic skin reaction. If a rash occurs, remove the individual from the work area and seek a physician's care for dermatitis.
- May cause serious eye irritation. In case of eye contact, flush with water for at least 15 minutes and consult a physician.
- Keep away from the source of ignitions and sparks, the material contains flammable solvents.
- If contact with hardeners occurs, remove any clothing involved and flush the skin with flowing water.
- Do not attempt to wash and reuse it.
- If swallowed, do not induce vomiting; call a physician immediately.
- Keep out of reach of children.
- Consult SDS for more safety information.

### Chemical resistance:

Fully cured GUARD PU HS is resistant to many chemicals. Please consult the technical department for a detailed chemical resistance table.

### TECHNICAL DATA

Parameters	Methods	Values
Components	-	Two: Base & Hardener
Appearance	-	Clear & Glossy
Pot Life	-	60 mins.
Surface Dry	-	45 mins.
Tack Free	-	3 - 4 hrs.
Recoat ability	-	4 – 5 hrs.
Light Foot Traffic	-	24 hrs days
Full Cure	-	7 days
UV Resistance	-	Excellent
Abrasion resistance : Taber Wheel CS17/1000g/1000 cycles	ASTM D 4060	< 0.1 g mass loss

*The above results are typical properties achieved in laboratory tests at 23 ± 2°C and at 55 ± 3 % Relative Humidity.*

*The data in the above table shall be used by the Project Design Professional to determine the suitability, placement, building code conformance and overall construct appropriateness of a given installation assembly.*

### INSTALLATION

#### Surface Preparation

Surfaces to be treated must be dry, sound, free from oil or other contaminants, loosely adhering coatings, laitance, and dust.

Application: Ensure surface is prepared and completely dry. The substrate should be dry up to 75% RH as per BS 8204 and free from rising damp and ground water pressure. To produce the required aesthetic effect a smooth, level substrate is required.

Primer: For stone carpet application Guard Prime EPM as a bonding primer is recommended. Apply Guard Prime EPM on the substrates, for highly porous substrates a second coat of primer is necessary. Pour the mixture of aggregates with binder on wet primer for optimum bonding.

#### Mixing

Mix full unit as supplied. Empty the entire contents of part B into part A. Optional colour can be added if desired. To ensure that all material is extracted, the insides of the tins should be scrapped. Recommended low speed drill paddle mixer for mixing Guard PU Part A and part B and Pan mixer for mixed Guard PU HS binder with aggregates.

Always mix the entire Part A and Part B to ensure a complete reaction and performance.

#### Application

Stone Carpet finish:

Pre-mix Guard PU HS Part A and Part B using a low-speed mechanical stirrer until a homogeneous blend is achieved. Separately, place the specified graded aggregates into a suitable pan mixer and mix in accordance with the approved mix design. While the pan mixer is in operation, gradually add the pre-mixed Guard PU HS binder to the aggregates.

Continue mixing for approximately 3–5 minutes, or until all aggregates are uniformly coated and fully wetted with the binder.

Pour the mix over the fresh primed surface and spread with a suitable rake or trowel and finish as desired.

Colour flake system: Guard PU HS mix ( part A & part B) shall be applied over the prepared concrete surface at 0.2 - 0.3 Liter /sqm coverage. Broadcast desired colour flakes/chips over the wet coat and cover the entire coat with excess. To ensure proper bonding roll down with a 10 kg roller over the broadcasted flakes. Allow to dry for 5- 6 hrs. to a hard set. Scrape the flakes unidirectionally with a flat trowel.

Apply a second coat of Guard PU HS as per the earlier mixing procedure.

Allow the final application to set for 24 hrs. before foot traffic.

For regular vehicular traffic, full curing for 7 days is recommended.

*Note: Mock-ups and field test areas are required to validate performance and appearance characteristics (including but not limited to finish, 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 coating system. Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc. during application of LATICRETE products may lead to fisheyes, blistering, pinholes, wrinkling, or outgassing of air in the concrete and are not product defects.*

### **Cleaning and waste disposal**

All tools and equipment shall be cleaned immediately after use with suitable solvent or thinner.

Dispose empty containers, waste solvent, other used items as per local government regulation. Spillages should be absorbed with sand or sawdust and disposed of as per local regulations. Refer Safety data sheet for details.

### **AVAILABILITY AND COST**

#### **Availability**

LATICRETE® materials are available worldwide.

#### **For distributor information,**

please contact us by email at: [enquiry@laticrete.me](mailto:enquiry@laticrete.me)

or, visit [www.laticrete.me](http://www.laticrete.me)

#### **Cost**

Contact a LATICRETE® closer distributor to obtain complete information and cost.

### **WARRANTY**

The supplier warrants this product will not deteriorate under normal conditions and use, the warranty validity of one (1) year. The product subject to the terms and conditions stated in the LATICRETE® Product Warranty. Please consult our technical support for further information.

### **MAINTENANCE**

The long-term performance, appearance, and life expectancy of wear surface products are critically dependent upon a good routine maintenance program designed specifically for the installed wear surface. LATICRETE 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. Recommended maintenance program consists of frequent and thorough cleaning utilizing a neutral pH cleaner. Frequency of washing will vary depending on floor usage type, traffic and age. Please refer to TDS 3141 "Floor Maintenance Guide" available at [www.laticrete.com](http://www.laticrete.com) for more information.

### **TECHNICAL SERVICES**

#### **Technical assistance**

For information contact us by email at:

[enquiry@laticrete.me](mailto:enquiry@laticrete.me)

#### **Technical and safety literature**

To obtain technical and safety literature, please visit our website at: [www.laticrete.me](http://www.laticrete.me)

**Warning:** The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from their implementation. Those who want to use the LATICRETE® products must conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation method and site conditions.