

**Superior Chemical Resistant Novolac Coating (CRS III)**

**PRODUCT DESCRIPTION**

Tera-Gem III Superior Chemical Resistant Novolac Coating (CRS III) is a tough wearing, 100% solids, solvent free (No VOC's – Meets all of California's VOC Requirements), seamless epoxy coating designed for use as a chemical resistant coating for commercial and industrial environments. This product has excellent adhesion to concrete, tile and wood substrates. This product can also be installed to vertical surfaces and ceilings. The Tera-Gem III CRS III system is a nominal 30 mils consisting of the following:

**FIRST COAT:** A two-component epoxy resin formulated with inorganic pigments, inert platy fillers and flow modifiers to provide a fluid coating.

**SECOND COAT:** The second coat is a repeat of the first coat to build to the proper mils, remove pinholes and allow for the addition of an anti-skid aggregate texture if required. An additional topcoat can be added depending upon application and texture demands.

**PHYSICAL PROPERTIES**

Compressive Strength	(ASTM C-579)	11,800 psi. AFTER 7 DAYS
Flexural Strength	(ASTM C-580)	5,000 psi.
Tensile Strength	(ASTM C-307)	2,800 psi.
Flammability	(ASTM 635)	Self Extinguishing
Impact Resistance	(Mil D-3134F Sec 4.7.3)	No cracking or delamination at 16/ft./lbs.
Water Absorption	(ASTM C-413)	0.25%
Bond Strength, Primer	(ASTM 4541)	>400 psi

**Physical Properties-Binder Cured 7 days**

Tensile Strength	(ASTM D 638) psi	6,000 psi
Flexural Strength	(ASTM D 790) psi	10,500 psi
Flexural Modulus	(ASTM D 790) psi	4.10 x 10 <sup>5</sup>
Hardness	(ASTM 2240)	Shore D - 84
Abrasion Resistance	(ASTM 4060) CS10 Wheel	1000 cycles, wt. loss (gm) - .041 gm

**Application Properties**

Mix Ratio	2A : 1B by volume
Pot Life (minutes)	20 @ 77 deg. F
Application Temp.	(F. Min) 50 deg .F

When placed by trained applicators, Tera-Gem III CRS III will provide a long lasting, easy to maintain floor that will stand up even in the most demanding of environments.

## **SUGGESTED USES**

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Tera-Gem III CRS III is suitable for plating shop, electronic plants, chemical plants and storage areas, laboratories, sewage and water treatment facilities, animal rooms, oil refineries, etc.

## **CHEMICAL RESISTANCE**

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Tera-Gem III CRS III is designed provide secondary containment, splash/spill resistance to a broad range of industrial chemicals. Including acids, alkalis, solvents and oxidizers. Consult the CRS III chemical resistance chart for specific recommendations. Contact the Tera-Lite, Inc. technical department for assistance.

### **NOTE:**

- The end user should supply information regarding chemical concentrations, service temperatures and cleaning procedures to verify correct use of product. Review full chemical resistance charts for additional chemical information. Contact TL technical department for information regarding specific applications.
- Staining or a white blush will occur if the new floor is not allowed to cure fully (7 days) prior to allowing water, chemicals, etc. to stand on the surface.

## **SURFACE PREPARATION**

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Concrete surfaces must be free from surface contaminants, laitance, curing compounds, oils, greases, dirt, chemical contaminants, delaminated coatings, etc. The surface must be sound. Concrete compressive strength must be a minimum of 3,000 psi. New concrete should be cured for a minimum of 28 days, preferably by wet cure. User must notify manufacturer if conditions differ from above. If hydrostatic moisture test results are in excess of 10lbs. then a moisture vapor barrier coating will be required in order to warranty application against failure due to hydrostatic moisture. To properly prepare concrete surfaces, the concrete may be steel shot-blasted, ground, scarified, or prepared using another approved technique.

## **SYSTEM APPLICATION**

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### **SEALERS/ANTI-SKID:**

Apply two pigmented seal coats using the Tera-Gem III CRS III liquid components. Apply the first seal coat (aka flood coat). Let the surface cure. Prep floor between coats by sanding the surface. Mix and place the second seal coat (aka topcoat) similarly to the first coat, application rate is approx. 125 sq. ft. per gallon. During the second seal coat process, if an anti-skid is required, incorporate graded silica aggregate to desired texture. See anti-skid recommendations for texture options.

## **MATERIAL HANDLING**

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Epoxy resins and curing agents have certain handling hazards. Users should become familiar with the information contained in the SDS sheets for each formulated systems. Observe warning indications on the labels for each component.

## **PACKAGING**

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Tera-Gem III CRS III epoxy system is available in pre-measured gallon, 3 gallon kits, 15 gallons kits and 165 gallon kits.

## **NOTES**

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The following information is available online at [www.teralite.com](http://www.teralite.com):

- Material Safety Data    - Color Selection    - Anti-Skid Recommendation    - Maintenance Suggestions
- Chemical Resistance

The technical data furnished is true and accurate to the best of our knowledge. However, no guarantee of accuracy is given or implied. We suggest that the user evaluate these recommendations and suggestions in conjunction with their specific application. Tera-Lite, Inc. / Revolan Systems warrant its products to be free from manufacturing defects conforming to our most recent material specifications. In the event of liability, we will be limited to the replacement of material at the material value only and at the sole discretion of Tera-Lite Inc. /Revolan Systems. We assume no responsibility for coverage, suitability of application, performance, or injuries resulting from use.