



## TERA-GEM III Wall & Floor Coating System (WF)

### PRODUCT DESCRIPTION

Tera-Gem III Wall & Floor Coating System (WF) is a 100% solids, solvent free (No VOC's – Meets all of California's VOC Requirements), formulated epoxy coating system designed to provide excellent chemical resistance to a broad range of acids, alkalis, solvents and strong industrial chemicals. The coating system is designed for use as a protective coating for commercial and industrial environments. This product has excellent adhesion to concrete products, drywall, and wood substrates. The Tera-Gem III Wall & Floor system is a two coat self priming system applied at a total DFT of 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 D-695)	11,500 psi. AFTER 7 DAYS
Flexural Strength	(ASTM D-790)	9,400 psi.
Tensile Strength	(ASTM D-638)	7,400 psi.
Tensile Elongation	(ASTM D-638)	5%
Hardness	(ASTM 2240)	Shore D - 82
Flammability	(ASTM D635)	Self Extinguishing
Water Absorption	(ASTM C-413)	0.04%
Impact Resistance	(ASTM D2794)	No cracking or delam at 16/ft/lbs
Abrasion Resistance	(ASTM 2240) CS10 Wheel	1000 cycles, wt loss (gm) - .034 gm
Bond Strength	(ASTM 4541)	>400 psi

#### Application Properties

Mix Ratio	2A : 1B by volume
Pot Life (minutes)	30-40 @ 77 deg F
Application Temp.	(F. Min) 50 deg F

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

## **SUGGESTED USES**

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Tera-Gem III W&F can be used on walls, ceilings, and on walkways, trenches, plating shops, electronics plants, chemical manufacturing, chemical storage areas, laboratories, sewage and water treatment facilities, animal rooms, and refineries.

## **CHEMICAL RESISTANCE (PARTIAL LIST)**

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Tera-Gem III Wall & Floor Coating System is designed to provide secondary containment and splash / spill resistance to a broad range of industrial chemicals including acids, bases, solvents and oxidizers. Consult the full chemical resistance chart for specific recommendations. In some instances Tera-Gem III Wall & Floor Coating System is recommended for continuous immersion service. Contact TL technical department for information regarding specific applications.

### **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. Wet curing is the preferred method. User must notify manufacturer if conditions differ from above. To properly clean concrete surfaces, the concrete may be sandblasted, steel shot-blasted, scarified, or other approved technique.

## **SYSTEM APPLICATION**

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### **PATCHING IF NEEDED:**

Since this is a thin film coating, some patching of spalls, holes, and cracks may be required. Use Tera-Gem III RP45 – Epoxy Patch prior to coating.

### **FIRST COAT:**

Use Tera-Gem III Wall & Floor liquid A & B components. Use a clean bucket and mix 2 parts of A to 1 part of B by volume. Stir with a mechanical agitator for 1-2 minutes. Distribute mixed material evenly over the floor surface using rollers or squeegees. Spread rate will vary from 70 to 150 sq. ft. per gallon depending on surface. Do not apply over standing water. Allow coat to cure enough that you can use a floor sander to prepare for second coat (typically 8-14 hours depending on temperature). Recoat within 24 hours.

### **SECOND COAT/ANTI-SKID:**

If coated within 24 hours, lightly sand between coats. Repeat the mixing and installation process described in the “First Coat”. The rate of application will vary from 75-125 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 MSDS sheets for each formulated system. Observe warning indications on the labels for each component.

## **PACKAGING**

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Tera-Gem III Wall & Floor 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.

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