

Industrial Flooring System Slurry (IFS Slurry)

PRODUCT DESCRIPTION

Tera-Gem III IFS Slurry Floor Coating System is a chemical resistance, tough wearing, excellent impact resistance, 100% solids, and seamless epoxy-aggregate composite. This system has excellent adhesion to concrete and wood substrates. Tera-Gem III IFS Slurry Floor Coating system is a nominal 1/16" - 1/2" thick composite consisting of the following:

SLURRY COAT: A three component consisting of epoxy resin, curing agent, with or without inorganic pigments and selected graded silica aggregates.

TOP COAT: Consists of the Tera-Gem III IFS Slurry liquid components with inorganic pigments.

PHYSICAL PROPERTIES

Compressive Strength	(ASTM C-579)	11,500 psi.
Flexural Strength	(ASTM C-580)	4,500 psi.
Tensile Strength	(ASTM C-307)	2,500 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	9,400 psi
Flexural Modulus	(ASTM D 790) psi	3.05 x 10-5
Hardness	(ASTM 2240)	Shore D - 83
Abrasion Resistance	(ASTM 4060) CS10 Wheel	1000 cycles, wt loss (gm) - .034 gm
Water Spot Resistance	72 deg F. 8 hr cure	Pass

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 IFS Slurry will provide a long lasting, easy to maintain floor that will stand up even in the most demanding of environments.

SUGGESTED USES:

Animal Rooms, Service Bays, Garages, Laundry Areas, Mechanical Rooms, Food Processing Areas. Can also be used to level existing substrates and fill low spots, or as an isolation/insulation membrane in high voltage areas.

CHEMICAL RESISTANCE:

<u>Reagent</u>	<u>Film Integrity</u>	<u>Reagent</u>	<u>Film Integrity</u>
30% Nitric Acid	No Effect	Urine	No Effect
30% Phosphoric Acid	No Effect	Household Cleaner	No Effect
20% Hydrochloric Acid	No Effect	(Non-Dye Containing)	
70% Sulfuric Acid	No Effect	Beer/Wine	No Effect
10% Acetic Acid	No Effect	Rubbing Alcohol	No Effect
50% Sodium Hydroxide	No Effect	Bleach	No Effect

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.

NOTE: 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

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 2500 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

SLURRY BASECOAT:

Use a clean container and mix Tera-Gem III IFS liquid components at a ratio of 2 parts A to 1 part B by volume. To one weight equivalent of mixed liquid components add approximately 1 weight equivalent of aggregate. Mix all components using an electrical drill motor agitator or a plaster mixer. Mix all components for 2-3 minutes or until uniformly mixed. Transfer to installation area and trowel, notch squeegee, or gauge rake to a thickness of 1/16" to 1/2".

TOPCOAT:

After the Slurry Base has adequately cured, apply a clear or pigmented coat using rollers, brushes or spray equipments at approximately 125 sq ft. per gallon, then broadcast silica aggregate and backroll with rollers for the desired effect. The most commonly used anti-skid texture is achieved with silica sand. Other aggregates and spread rates can be used to achieve the desired surface appearance and anti-skid properties in the most demanding environments. Obtain sample for approximate desired surface appearance and texture.

MATERIAL HANDLING

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

PACKAGING

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

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 warrants its products to be free from manufacturing defects conforming to their most recent material specifications. In the even of liability will be limited to the replacement of material of the material value only 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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