

EnviroGLAS Products, Inc.

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Glass Aggregate in Epoxy Terrazzo Matrix

Product Data & Installation Procedures

General Information:

EnviroGLAS Terrazzo is a thin-set Epoxy Terrazzo application that combines a VOC free, two component color pigmented epoxy resin system and 100% Post Industrial Recycled Glass Aggregate. EnviroGLAS Terrazzo is trowel applied to a minimum of 3/8" thickness, ground and polished to provide an attractive seamless hard surface. With the advent of economical post industrial recycled glass and colored epoxy resin, EnviroGLAS Terrazzo offers NTMA Contractors the opportunity to produce a hard surface floor that accentuate the beauty and durability of translucent glass. The finished surface is highly chemical resistant, does not require a sealer, easy to maintain and does not support bacterial growth. In addition, EnviroGLAS Terrazzo is an economical and sustainable application with a low life cycle cost.

Surface Preparation:

EnviroGLAS Terrazzo is recommended for application over concrete substrates that provide the following conditions:

- *Surface and air temperatures must be at least 55 degrees Fahrenheit during the installation and initial cure.
- *Check humidity in the concrete slab using method ASTM F-2170. Relative humidity in the concrete slab should be 80% and below.
- *Moisture vapor transmission should not exceed 3 pounds per 1,000 square feet per 24-Hour Period.
- *Concrete substrate should have laitance removed; preferably using a vacuum shot blasting method.
- *Concrete substrate needs to have cured a minimum of 28 days.
- *Concrete substrate is level to within 1/4" in 10 feet.
- *Optional crack isolation treatment may help prevent cracking of topping. Consult Manufacturer recommendations.

*Surface area should be checked for soundness. All depressions, cracks and spalled areas to be corrected prior to topping.

Material Quantities:

The Quantities, Materials and Coverage's Listed Below are provided as a Guide Only. It is recommended that Terrazzo Applications check with each Epoxy Resin Manufacturer to verify system requirements and coverage's.

ENVIROGLAS TERRAZZO

Guideline System Requirements for 3/8" Nominal Thickness. Coverage Based on 1,000 Square Feet.

<u>Material</u>	<u>Quantity / 1,000 Sqft</u>	<u>Coverage</u>
Epoxy Primer	4 Gallons	250 Sqft / Gallon
Epoxy Resin	100 – 110 Gallons	8-10 Sqft / Gallon
Epoxy Filler	600 - 800 Pounds	As Needed
EnviroGLAS Aggregate	4,000 Pounds	(80) 50 lb Bags
Epoxy Grout	3 Gallons	250-300 Sqft / Gallon
Flexible Epoxy (if needed)	20 Gallons	50 Sqft / Gallon

Installation Procedures:

Priming:

An Epoxy Primer is recommended to ensure maximum adhesion to a prepared substrate.

*Mixing Epoxy Primer:

*Thoroughly mix each component together per manufacturer recommended ratio.

*Mix only that amount of material that can be used in a 30-minute period.

*Application of Epoxy Primer:

*Pour Primer onto the prepared concrete.

*Spread with either a flat trowel or squeegee to a coverage of 250 square feet per gallon.

*Back roll with a short nap roller. Do not allow the primer to puddle.

*Allow Primer to sit for 30 minutes prior to terrazzo installation.

*If Primer sits for a prolonged period, a light broadcast of dry silica sand is recommended.

EnviroGLAS Terrazzo:

Mixing batches of EnviroGLAS Terrazzo should be done in a 3-5 cubic foot revolving blade type mortar mixer. Proper aggregate and epoxy resin mixing is critical to ensure system performance and uniformity.

***Mixing EnviroGLAS Terrazzo:**

- *Thoroughly mix each component prior to combining.
- *Mix Epoxy Resin per Manufacturers recommended ratio parts by volume of Part A (Resin) with recommended by part by volume of Part B (Hardener) for (3)minutes at a low speed.
- *Slowly add recommended volume of Epoxy Filler into the mixed resin.
- *Add EnviroGLAS aggregate into the mortar mixer and continue slow blend for 3-5 minutes or until aggregate uniformity. Consult epoxy resin manufacturer for square foot coverage per blended batch.

***Application of EnviroGLAS Terrazzo:**

- *Place EnviroGLAS mixture on primed surface. Spread material in a line or in small areas.
- * Spread with flat trowel to the 3/8” thickness.
- *Finish trowel with a machine trowel to improve production and compaction of the EnviroGLAS where applicable. Sprinkling additional EnviroGLAS aggregate to the surface is recommended to help overall uniformity.
- *Allow the EnviroGLAS Terrazzo Floor to cure for 24 hours.

Grinding Procedure:

An initial grind with a 24 grit carborundum stone is recommended to expose the glass aggregate and smooth the surface. NTMA Contractors have the option to utilize the wet or dry grind process. A second grind utilizing a 80 – 120 grit stone over the same area is recommended to eliminate swirl or irregular patterns. Keep the grinding machine moving at all times, first in parallel lines then diagonally across the floor. It is recommended that larger areas of grinding take place to reduce the amount of heat to the epoxy terrazzo generated by the terrazzo grinding equipment. Clean the floor after grinding. The floor must be clean and dry. After grinding the terrazzo is to be rinsed or vacuumed before applying the Epoxy Terrazzo Grout.

Grouting Procedure:

Grouting EnviroGLAS Terrazzo is necessary in order to fill small air bubbles that are opened during the grinding process. The NTMA recommends grouting the floor with same color epoxy grout used during the trowelled application.

***Mixing EnviroGLAS Terrazzo Grout**

- *Thoroughly mix each component per epoxy resin manufacturer’s instructions.
- *Do not mix more material than can be used within a (30) minute period.

- *Apply grout using a straight edge trowel tightly to the surface. It is recommended to pull the epoxy grout material twice with the second application crossing the first application.
- *Allow epoxy grout to cure a minimum of 24 hours prior to polishing process.

Final Polish Procedure:

Final polishing should be done with 80 grit to 220 grit stones or diamonds grit. Finer polishing will produce a superior finish.

Sealing Procedure: (Optional)

NOTE: A combination of 100% Post Recycled Glass and formulated Epoxy Resin DOES NOT require a SEALER. Topical sealer and finish can be used to provide additional shine and protection. Apply seal to manufacturers guidelines.

Maintenance Procedure:

EnviroGLAS Terrazzo Flooring is easily cleaned with neutral soaps and detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Long periods of heavy traffic may cause wear patterns necessitating a maintenance application of a finish coat.