

EnviroGLAS® Terrazzo

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 Recycled Glass Aggregates. 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 recycled glass and colored epoxy resin, EnviroGLAS Terrazzo offers NTMA Contractors the opportunity to produce variegated hard surfaces applications 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 that results into one of the lowest life cycle cost systems available today!

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.
- Moisture vapor transmission should not exceed 3 pounds per 1000 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 Manufacture 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 Applicators check with each Epoxy Resin Manufacture to verify system requirements and coverage's.

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Guideline System Requirements for 3/8" Nominal Thickness. Coverage Based on 1000 Square Feet.

<u>MATERIAL</u>	<u>QUANTITY / 1000 SQFT</u>	<u>COVERAGE</u>
EPOXY PRIMER	4 GALLONS	250 SQFT / GALLON
EPOXY RESIN	100 - 125 GALLONS	8 -10 SQFT / GALLON
EPOXY FILLER	600 POUNDS	AS NEEDED
ENVIROGLAS AGGREGATE	4000 POUNDS	(80) 50 LBS 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 insure maximum adhesion to a prepared substrate. Priming will also help to seal air in the concrete and prevent out gassing and air bubbling in the finished system.

- Mixing Epoxy Primer:
 - o Thoroughly mix each component prior to combining.
 - o Mix (2) parts by volume of Part A (Resin) with (1) part by volume of Part B (Hardener) for 3 minutes at a low speed
 - o Mix only that amount of material that can be used in a 30-minute period.
- Application Of Epoxy Primer:
 - o Pour Primer onto the prepared concrete.
 - o Spread with either a flat trowel or squeegee to a coverage of 250 square feet per gallon.
 - o Back roll with a short nap roller. Do not allow the primer to puddle.
 - o Allow Primer to sit for 30 minutes. Trowelled EnviroGLAS maybe applied to wet primer for up to (5) hours.
 - o 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 insure system performance and uniformity.

- ❑ Mixing EnviroGLAS Terrazzo:
 - Thoroughly mix each component prior to combining.
 - Mix Epoxy Resin Manufacture recommended 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. A properly mixed batch of EnviroGLAS Terrazzo should have a glistening wet appearance. A small amount of catalyzed resin could be added to the first batch if it is slightly dry due to absorption of the epoxy into the mixing vessels.
 - A complete batch of EnviroGLAS Terrazzo will cover approximately 100 square feet at 3/8" nominal thickness. Do not mix more material than can be applied in 40-50 minutes.

- ❑ 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 stone is sufficient to expose the aggregate and smooth the surface. NTMA Contractors have the option to utilize the wet or dry grind process. A second grind utilizing an 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. Clean the floor after grinding. The floor must be clean, dry and all grinding fines be removed before applying the Epoxy Terrazzo Grout.

ROUTING 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 prior to combining.
 - Mix Epoxy Resin Manufacture recommended parts by volume of Part A (Resin) with recommended by part by volume of Part B (Hardener) for (3) minutes at a low speed.
 - 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 and allow grout to cure (24) hours before final polishing.
 - Broadcasting Epoxy Filler (*same color as grout if possible*) over the surface will help absorb excess grout.

FINAL POLISH PROCEDURE:

Final polishing should be done with a 220 or finer grit stone. Finer polishing will produce a superior finish.

SEALING PROCEDURE:

NOTE: A combination of 100% Post Recycled Glass and formulated Epoxy Resin DOES NOT require a SEALER.

MAINTENANCE PROCEDURE:

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