

<b>PRODUCT INFORMATION</b>	<b>TYPE OF PRODUCT</b>	Terrazzo flooring
	<b>COMPANY NAME</b>	EnviroGLAS products Inc.
	<b>PRODUCT/COLLECTION NAME</b>	DB-04 BL-12
	<b>DESCRIPTION</b>	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
<b>MATERIAL FEEDSTOCK</b>	<b>MATERIAL CONTENT</b>	Recycled glass aggregate  Epoxy Primer, Epoxy Resin, Epoxy Filler, EnviroGLAS Aggregate Epoxy Grout, Flexible Epoxy (if needed)
	<b>RECYCLED CONTENT %</b>	100% Post Recycled Glass and/or Porcelain Aggregate.  Several glass aggregate suppliers are currently providing post-consumer recycled glass to the marketplace. Several slab marble and granite quarries have supplies of post-industrial stone left from slab granite and marble processing. The plastic chips actually contain as much as 20% recycled plastic. Aluminum divider strips may also incorporate recycled metal.
	<b>RAPIDLY RENEWABLE CONTENT %</b>	Uses recycled mixed bottle glass
	<b>HARMFUL ADDITIVES</b>	Both cement based and thin set epoxy terrazzo systems are comprised of zero VOC materials. Terrazzo exhibits little or no off-gassing over the life of the cured floor. The non-porous, cleanable terrazzo finish does not support microbial growth, nor allow moisture to accumulate, helping to maintain a mold-free environment with improved indoor air quality.
	<b>HARMFUL EMISSIONS</b>	Little or no off gassing
	<b>EMISSION STRENGTH OVER TIME</b>	N/A
	<b>TREATMENTS</b>	EnviroGLAS Epoxy Terrazzo, utilizes binders, resins and primers with VOC limits that range from zero to 60 g/L (based on information provided to the reviewer). This is considerably below the VOC limits required for compliance with South Coast Air Quality Management District Rule #1168 VOC Limits and the Bay Area Air Quality Management District Regulation 8, Rule 51. Most of the epoxy manufactures of thin set epoxy terrazzo systems have moved to 100% solids formulas, eliminating the addition of any VOC's to the material. EnviroGLAS can provide certification of VOC compliance from its epoxy manufacturer.
	<b>MANUFACTURING</b>	<b>MANUFACTURING PROCESS</b>

		<p><b>EnviroGLAS Terrazzo:</b>  2Mixing 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.</p> <p><b>Grinding Procedure:</b>  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.</p> <p><b>Grouting Procedure:</b>  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.</p> <p><b>Final Polish Procedure:</b>  Final polishing should be done with 80 grit to 220 grit stones or diamonds grit. Finer polishing will produce a superior finish.</p> <p><b>Sealing Procedure: (Optional) NOTE:</b>  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.</p>
	<b>HARMFUL EMISSIONS</b>	Little of no off gassing
	<b>LOCATION OF MANUF. PLANT</b>	EnviroGLAS Products Inc. 309 Gold Street Garland, TX 75042
	<b>TESTS/CODES</b>	Test for Hardness, tensile strength, compressive strength, chemical resistance, flammability, Thermal Coefficient of Linear Expansion, and Bond Strength.
	<b>3<sup>RD</sup> PARTY CERTIFICATION</b>	We are a member of The National Terrazzo & Mosaic Association.
<b>INSTALLATION</b>	<b>INSTALLATION PROCEDURE</b>	A. Sub-Floor 1. Shot or Bead Blast floor is recommended. 2. Install control joints directly above control joints in sub-floor. 3. Install divider strips as shown on Drawings.

		<p>B. Placing Terrazzo</p> <ol style="list-style-type: none"> <li>1. Prime sub-floor in accordance with Manufacturer's recommendations.</li> <li>2. Place terrazzo mixture in panels formed by divider strips. Trowel mixture to top of strips.</li> <li>3. Allow to cure 24 hours prior to grinding.</li> </ol> <p>C. Finishing: Finish terrazzo to NTMA requirements.</p> <ol style="list-style-type: none"> <li>1. Rough Grinding: Grind with 24 or finer grit stones or with comparable diamond plugs. <ol style="list-style-type: none"> <li>a. Follow initial grind with 80 -120 grit stones.</li> </ol> </li> <li>2. Grouting: Cleanse with clean water and rinse thoroughly. <ol style="list-style-type: none"> <li>a. Remove excess rinse water and allow drying.</li> <li>b. Hand apply grout to fill voids completely.</li> <li>c. Allow grout to cure.</li> </ol> </li> <li>3. Fine Grinding: Grind with 120 or finer grit stones to achieve superior finish.</li> <li>4. Sealing: If required, apply per manufacturer direction.</li> </ol>
	<b>INSTALLATION ADHESIVES</b>	EnviroGLAS Epoxy Terrazzo, utilizes binders, resins and primers with VOC limits that range from zero to 60 g/L (based on information provided to the reviewer). This is considerably below the VOC limits required for compliance with South Coast Air Quality Management District Rule #1168 VOC Limits and the Bay Area Air Quality Management District Regulation 8, Rule 51. Most of the epoxy manufactures of thin set epoxy terrazzo systems have moved to 100% solids formulas, eliminating the addition of any VOC's to the material. EnviroGLAS can provide certification of VOC compliance from its epoxy manufacturer.
	<b>UNIT COST</b>	Not specified
	<b>LIFE CYCLE ANALYSIS EXTRACTION</b>	EnviroGLAS Terrazzo is an economical and sustainable application with a low life cycle cost.
	<b>END OF SERVICE LIFE</b>	Terrazzo floors typically last the life of the structure. In many renovation projects, the original terrazzo flooring has been restored to its original luster following some inexpensive repairs and refinishing. Refinishing of terrazzo can be combined with the reuse of other non-shell areas like walls, doors, and ceiling systems to achieve 50% reuse.
<b>MISC. PROPERTIES</b>	<b>QUALITIES/PROPERTIES OF PRODUCT</b>	Epoxy Terrazzo Flooring with EnviroGLAS Products, Inc. recycled glass aggregate: Provide sound, hard, durable, epoxy terrazzo of uniform strength, color, and texture, free of flaws, cracks, seams, or other mineral or organic defects which affect visual appearance or structural integrity.
	<b>MISC. COMMENTS</b>	Not specified
	<b>CONTRIBUTION TO LEED POINTS</b>	<p>[LEED] Submittals:</p> <ol style="list-style-type: none"> <li>1. Credit MR 4.1[and 4.2]: Product Data indicating percentages by weight of post consumer and post industrial recycled content for products having recycled content. <ol style="list-style-type: none"> <li>a. Include statement indicating costs for each product having recycled content.</li> </ol> </li> <li>2. Credit MR 5.1[and 5.2]: Certification of content complying with Regionally Manufactured or Regionally Extracted Materials.</li> <li>3. Credit EQ 4.1: Manufacturers' product data for adhesives and sealants, including printed statement of VOC content.</li> </ol>
<b>COMPANY PROFILE</b>	<b>GREEN PHILOSOPHY</b>	Recycled Glass Opens the Floor to Creative Design
	<b>CONTACT</b>	EnviroGLAS Products, Inc. 309 Gold Street Garland, Texas 75042 (972) 276.9451 voice (972) 276.4736 fax www.eglasproducts.com
<b>MAINTENANCE</b>	<b>AFTER INSTALLATION</b>	<ol style="list-style-type: none"> <li>1. Keep installed work clean as work progresses.</li> <li>2. Leave clean and free from blemishes.</li> <li>3. Clean by moderate use of neutral cleaner acceptable by terrazzo manufacturer.</li> <li>4. Rinse clean and allow drying.</li> </ol>