



## **EnviroGLAS® Products, Inc.**

### Environmental White Paper

EnviroGLAS® Terrazzo is a seamless, poured-in-place, ground and polished combination of post-use recycled glass and epoxy resin matrix.

While secondary uses for recycled glass are common in Europe, approximately 75% of American glass bottles, mirrors, and plate glass end up in landfills, which is a shameful waste of this amazing resource. Glass is one of the world's most durable substances due to its zero water absorption, and recycled glass retains this property. The hardness of glass not only makes it abrasion resistant, but extremely strong. The use of recycled glass cullet instead of new glass reduces carbon dioxide, nitrogen oxide, and particulate emissions associated with glass production.

EnviroGLAS® Terrazzo diverts post-use recycled glass from becoming a waste material while recognizing it as a value-added product that is aesthetically beautiful as well as less expensive than other traditional terrazzo aggregates.

The epoxy resin matrix applied in EnviroGLAS® Terrazzo is comprised of 100% solid epoxy materials with zero volatile organic compound (VOC) emissions. Components have been confirmed to be non-hazardous, non-carcinogenic, non-odorous, non-flammable materials. EnviroGLAS® Terrazzo maintenance requirements are environmentally friendly: daily maintenance of just dry or wet mop with pH balanced cleanser and weekly buffing. Epoxy terrazzo has been shown to have the lowest life cycle maintenance cost when compared to other durable flooring materials. Highly resistant to corrosion, bacteria and chemicals, epoxy terrazzo is designed to last the life of the building. Terrazzo is manufactured on-site, minimizing post-commercial waste and transportation costs, while much of the marble and ceramic floor tile used in American construction is manufactured overseas and imported.

Please review the following studies for additional supporting information:

- "REUSE/RECYCLING OF GLASS CULLET FOR NON-CONTAINER USES"  
July 17, 2003  
Dane County Department of Public Works  
<http://www.epa.gov/epaoswer/non-hw/green/pubs/glass.pdf>
- Best Practice in Glass Recycling  
"Epoxy Applications for Recycled Glass"  
Clean Washington Center  
[http://www.cwc.org/gj\\_bp/gbp4-0403.htm](http://www.cwc.org/gj_bp/gbp4-0403.htm)
- "Recycled Glass Market Study and Standard Review,"  
2004 Update 20/5/2004  
Waste Resources Action Programme / Enviro  
<http://www.wrap.org.uk/publications/ Toc72823691>
- "Use of Recycled Glass as Aggregate for Architectural Concrete," C. Meyer and S. Shimanovich