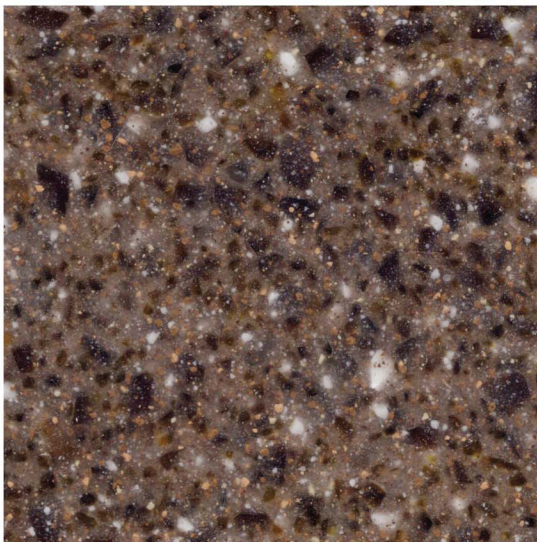


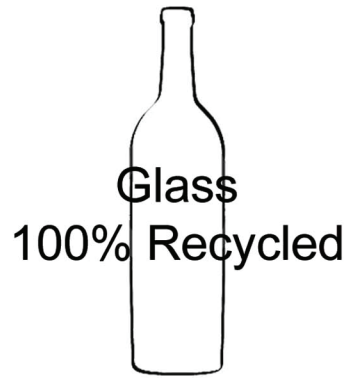
ReStone

RECYCLED FILLER
The R.J. Marshall Company





Recycled Content



How Green Is ReStone?

Designed with the environment in mind ReStone combines our knowledge of easy to use fillers along with 30% pre and post-consumer* recycled glass content and our patented color granules, which use a 20% loading of pre-consumer* waste back into production. ReStone products use only 100% recycled glass.

This collection renews your product offering and opens up possibilities for customers with a passion for green building. These products may also contribute to earning points under the LEED Green Building Rating system.

**EASY
TO
USE!**



LEED stands for Leadership in Energy and Environmental Design.

LEED, developed by the U.S. Green Building council (USGBC), is intended to provide building owners and operators a concise framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

*Post-consumer material is an end product that has completed its life cycle as a consumer item. Un-recycled, these materials would end up as landfill.

*Pre-consumer material is derived from manufacturing waste that is collected, recycled and used back into the process.

LEED Credits that ReStone Fillers could help contribute to the LEED certification for you or your customers projects		
Category	Credit Requirement	ReStone may contribute
MR 4.1 - Recycled Content 10% (1 point)	The use of recycled products that constitutes at least 10% of the total value of the materials of the project. (post consumer + 1/2 pre consumer)	ReStone utilizes 30% pre consumer and post consumer recycled glass materials in order to aid in reducing the amount of virgin material needed for our products and thus saving the recycled glass from landfills.
MR 4.2 - Recycled Content 20% (1 point)	The use of recycled products that constitutes at least 20% of the total value of the materials of the project. (post consumer + 1/2 pre consumer)	
ID - Innovation in Design, Recycled content 30+% (1 point)	Recycled content at 30% or greater	
MR 5.1 - Regional Materials 10% (1 point)	Use materials or products that have been extracted, harvested or recovered, as well as manufactured within 500 miles of the project site for a minimum of 10%	For all ReStone mixes, 30% by weight is extracted from within 500 miles and 100% of the product is manufactured in Rockwood, Michigan
MR 5.2 - Regional Material 20% (1 point)	Use materials or products that have been extracted, harvested or recovered, as well as manufactured within 500 miles of the project site for a minimum of 20%	

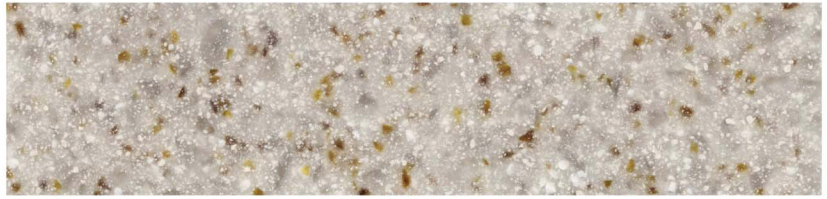
ReStone



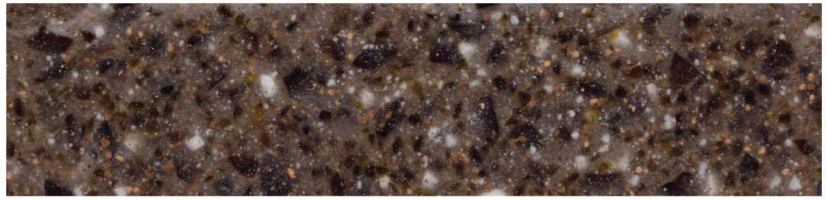
Alpine
RST 220



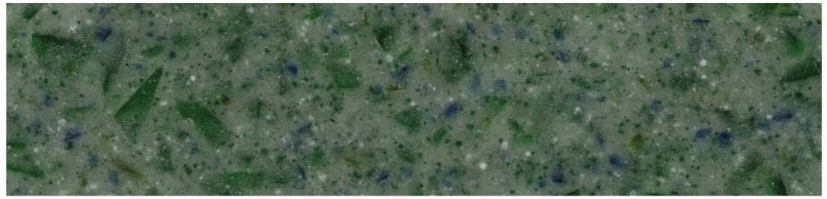
Tea
RST 385



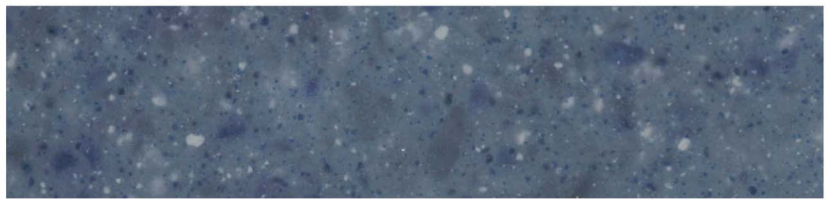
Ember
RST 339



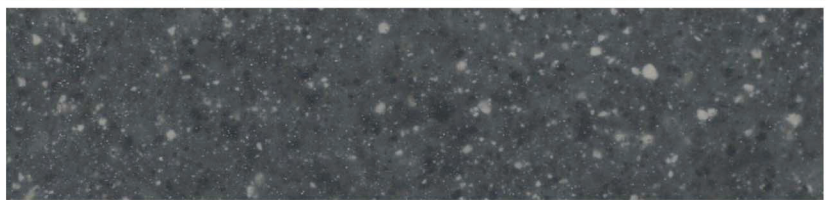
Jade
RST 670



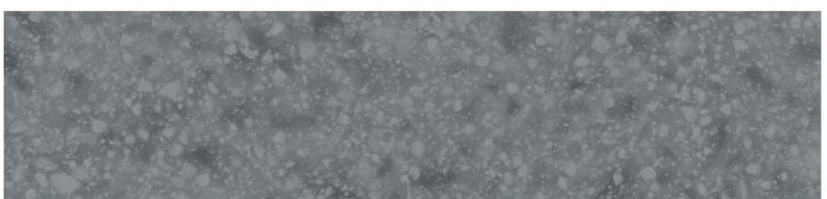
Bay Blue
RST-729



Black Ice
RST-430



Slate Gray
RST-270



Sand
RST-395



Toffee Brown
RST-304



Colors are representative. Final product determination must be based on casting in your resin and process.



Equipment

Use standard marble mixing equipment and molds. We recommend diamond cutting tools due to the abrasiveness of the glass.

Gelcoat

A gelcoat must be used on all gravity cast, recycled glass filler products. Apply the gelcoat at a thickness of 22-25 mils (wet). To obtain a satin finish, use a 400 to 600 grit sand paper or a 3M "Scotch Brite" pad.

Resin

An onyx or swing resin is recommended due to the translucent nature of the material. The appearance of the final product may vary in color when different resins are used. The recommended resin level for ReStone Recycled Glass Filler is 21-25% by weight, depending on viscosity.

Bonding and Air Release Agents

An additive such as BYK-C 8000 will help bond the glass to the polyester resin. Air release agents such as BYK-A 500 or A 555 can help prevent air entrapment on part surfaces. The bonding and air release agents should be added to the resin (along with the catalyst) and mixed before the filler is added. Use at manufacturer's recommended levels.

Catalyst Level

Use the same catalyst level as with cultured marble. 1.5% catalyst, based on resin weight, is a good starting point. The gel time for the ReStone matrix should be around 30 minutes. If gel times are too long, a more reactive resin or catalyst system may be required.

Matrix Consistency

The ReStone matrix may seem exceedingly thick at the recommended resin levels, but it will flow well with vibration. Always start with less resin and add as needed. Too much resin will result in excessive glass settling and possible warping. The backside of a correctly cast part will be "dimpled" with glass pieces.

Vibration

Vibration during the pouring of the matrix will promote optimum flow and air release.

Thermal Cycling

ReStone Recycled Glass Filler has not yet been approved for bowl applications.

Other Considerations

When using less than a full bag, mix the material in the bag thoroughly before adding to resin. Doing so will ensure a homogeneous blend of materials that may have segregated during shipping.

Due to the highly translucent nature of these products, backfilling with any other material is not recommended.

Note: These suggestions are not meant to represent a guarantee. Each manufacturer must evaluate our materials and judge their suitability in their own system.



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