INSTRUCTIONS

DESCRIPTION
Aqua-Glass™ cut strand is a unique fiberglass reinforcement material. Its proprietary surface sizing allows easy dispersion in all Aqua-Resin® mixes, as well as promoting a significantly stronger bond between the cured Aqua-Resin, and the glass fiber itself.

When properly applied and cured, laminations with Aqua-Glass fiberglass exhibit substantially stronger break strength than can be achieved with conventional fiberglass, and therefore permit a reduction in laminate wall thickness—affording a savings in both weight and material cost, as well as a savings in labor. Aqua-Glass cut strand is available in four nominal designations: 1/2” (0.5), 1” (1.0), 4 1/2” (4.5) and a mixture of 3 1/2” and 1” (3.5-1.0).

INSTRUCTIONS

Gel Coats/Surface Coats: The first coat into a mold often needs reinforcement, especially in the case of silicone rubber molds. Into a normal Aqua-Resin mix, add a small amount (approx. 0.5%) of the Aqua-Glass 0.5 (1/2”) glass fiber. Stir until the mix appears to “gel”. Then brush apply with a scrubbing and dabbing motion. This gel coat/surface coat layer usually need be no more than 15-30 mils thick (1/64-1/32”). Aqua-Glass fiber will not show (“print through”) on the surface of your laminate, as will ordinary chopped fiberglass.

Laminating Coats: For optimum strength in the laminating (reinforcing) layers of a composite part, Aqua-Glass 3.5-1” or 4.5” is recommended. This length strand can be used in much the same way as conventional chopped strand mat. As with any Aqua-Resin hand lay-up, first a heavy layer of mix is applied. Then the Aqua-Glass is applied, and immediately tamped down with a brush so that the underlying mix is brought up, from below, through the fibers, assuring a thorough wet-out. The use of a bristle or hard finned fiberglass roller of appropriate contour is highly recommended as an adjunct to the tamping procedure. The use of a fiberglass laminating roller will not only increase strength, but also allow for a thinner wall thickness, thereby decreasing both weight and material cost. Some ordinary paint rollers can also be used for this purpose, but should be tested first to make sure that fiberglass strands will not roll up on the roller surface.

When applying Aqua-Glass fibers, successive layers may either be randomly sprinkled in place, or for extra structural enhancement, may be oriented at a 45- or 90-degree angle to the previous layer. Unlike chopped strand mat, Aqua-Glass fibers can be aligned with the geometry of the part to produce the strongest reinforcement configuration.

Foam Coating: Either Aqua-Glass 0.5 or 1.0 fibers can be incorporated into an Aqua-Resin mix for foam coating. A 0.5% addition is typical. Mix until the “gel-point”. Then brush apply with both a dabbing and pushing motion. A second, un-fibered, mix may then be applied, to allow extra material for removal by sanding. Aqua-Veil 10 mil may also then be applied, wet into wet, to achieve a smoother surface; if desired, a foam paint roller may also be used to further smooth the surface.

Casting Solid: When casting solid, a small amount (no more than 0.5% of the total mix—about a pinch per cup) Aqua-Glass 1/2” or 1” will add considerable strength to the final casting. See L/S3 instructions for more Information.

TIP
Aqua-Glass 0.5 or 1.0 will also greatly increase the strength of silicone or alginate molds. It will allow for thinner molds, saving material, weight, and application time. Please test for compatibility with your mold material beforehand.

Consult SDS before using. aquaresin.com/sds

The above recommendations and instructions provided for Aqua-Resin® products are presented in good faith and believed to be correct and accurate. However, since user methods and conditions of application are entirely beyond our control, this information is offered without warranty. The user is advised to do their own testing to determine suitability for their particular application.

Please contact us or visit our website for the most up to date product instructions and information.

info@aquaresin.com www.aquaresin.com