

AQUA-GLASS™

Chopped Strand Fiberglass

AQG™ - 0.5, AQG™ - 1.0, AQG™ - 3.5-1, AQG™ - 4.5

AQUA•RESIN®

xf

Aqua-Glass™ chopped 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 saving in both weight and material cost, as well as a savings in labor.

Aqua-Glass chopped strand is available in four lengths: ½”(0.5), 1”(1.0), 4-1/2”(4.5) and a mixture of 3-1/2” and 1” and (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”).

AQG™ 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, although **Aqua-Glass -1”** may be preferable for smaller parts. 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 heavily applied mix is laid down. Then the **Aqua-Glass** is applied, and immediately tamped down with a brush so that the underlying mix is brought up through the fibers, assuring a thorough wet-out. The use of a hard finned fiberglass roller of appropriate contour is highly recommended as an adjunct to the tamping procedure.

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 configuration of reinforcement.

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 operations.

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 MSDS before using.

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 with warrantee. 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.

www.aquaresin.com