



“YOU SUPPLY THE TALENT... WE’LL SUPPLY THE REST!” THE COMPLEAT SCULPTOR

Tech Sheet - AquaResin® PearlVeil (AQG-FCV™ Surfacing Veil)

DESCRIPTION

PearlVeil surfacing veil is an easy to use, safe and non-irritating, continuous strand, fiberglass mat material with multiple uses in Aqua-Resin® laminating, and foam-coating applications.

It can be used to both strengthen and unify a thinly applied gel-coat on a mold surface, and in doing so prevent premature release of the gel coat from the mold surface. In addition it can be post-applied to already cured, or curing part surfaces to provide a smoother surface for sanding and other finishing operations.

The two primary uses for PearlVeil are Foam-Coating and gel coats. Because of its specially formulated, soluble binder, the individual glass filaments easily separate when brush applied into a wet Aqua-Resin® mix, allowing the PearlVeil to fully assume the three-dimensional contour of the surface to which it is applied.

PearlVeil is available in several nominal thicknesses from 10 mils to 50 mils (½ oz.). It is 40” wide, available in rolls.

INSTRUCTIONS

Gel Coats

Typically a 10 mil weight PearlVeil is used for reinforcing gel coats. A normal Aqua-Resin® mix is first applied to the mold surface. Before this application has a chance to dry, apply a layer of veil, tamping it in place with a stiff brush (chip brush). Usually a second application of mix is not necessary. Care should be taken to make sure the veil has not only been wetted through thoroughly,

but also has no air pockets are left under it. In most cases, appropriate sized pieces of veil are applied as needed, making sure there is some overlap between them. For extra strength, some AQG™ 0.5 chopped strand may be added to the gel coat.

Foam Coating

The thickness of the surface-coat over a foam shape is usually determined by a balance of two factors: the strength required and how much loss of detail can be tolerated. Using the range of weights of PearlVeils available, a suitable thickness is selected and applied in much the same way veil is applied in a gel coat. A second coat of Aqua-Resin® mix is then applied with no veil reinforcement. This second coat will allow enough extra material for sanding and finishing operations. In the case where maximum strength is required, an initial layer of ¾ oz. chopped strand mat can be applied (as described in the “L”& “S3” instructions). However, for maximum surface smoothness, when using mat, a layer of 10 mil PearlVeil should immediately be placed over the still wet (uncured) mat layer – i.e. “wet into wet”. To further increase smoothness in any veil application, and again while still in the wet-uncured state, some suitable “tool” or the heel of gloved hand can be used to smooth and remove any texture of the curing Aqua-Resin®.

Please note: PearlVeil is not intended to replace chopped-strand or chopped-strand mat for reinforcing Aqua-Resin® laminated parts. While veil might be appropriate for certain low strength applications, AQG™ 4.5” chopped strand or conventional chopped-strand mat should be used when maximum strength is required.

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