

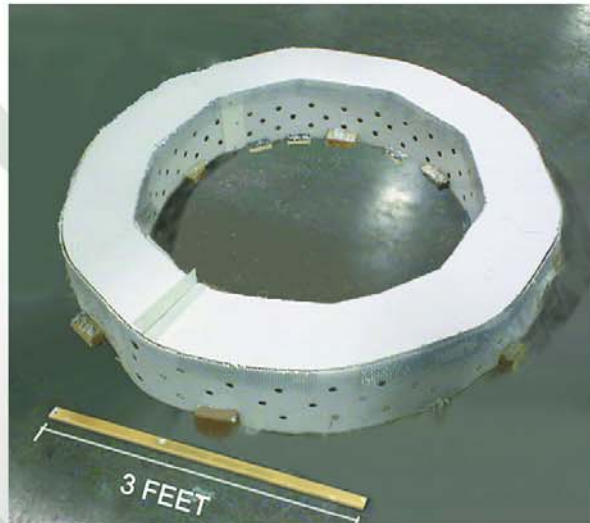


AQUACORE™

Unlike conventional mandrel materials, which must be tediously removed from composite lay-ups, **Aquacore™** mandrel is readily soluble in cold tap water and can easily be washed away from the finished part.



Aquacore™ saves time, labor and the wash-away feature minimizes the possibility of damaging fine details.



Aquacore™ Benefits:

Washes out in cold tap water in minutes.

Environmentally friendly, no special disposal procedures required.

Nontoxic and odorless.

Remove mandrel from previously inaccessible hidden areas.

Easily dried in a convection oven.

Strong and lightweight.

Makes complex part manufacturing simple.

Compatible with all commercial resins and pre-preg compounds.

Easily repaired and re-formed.

Saves time.

Reduces labor.

Saves money.



Aquacore™ Specifications:

Compressive Strength:	~700 psi
Density Wet:	28.1 lbs. / cu. ft.
Density Dry:	23.1 lbs. / cu. ft.
Coefficient of Thermal Expansion:	6×10^{-6} mm / mm° C

Aquacore™ is available in 5 and 55 gallon containers. **Aquacore™** is also available in machinable, pre-formed, dried blocks in virtually any size. Call or fax Aero Consultants for assistance with your specific requirements. Aero Consultants recommends **Aquaseal™** to seal the tool and prevent resin migration.



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AQUAPOUR™

Aquapour™ is a powdered mandrel material, which is easily mixed with water. **Aquapour™** may be poured or injected into molds to form complex mandrels for composite lay-ups.

Aquapour™ is readily soluble in cold tap water and can easily be washed away from the finished part.

Aquapour™ saves time, labor and the wash-away feature minimizes the possibility of damaging fine details. **Aquapour™** is formulated to minimize air bubbles and voids.



Aquapour™ Benefits:

Easily mixed with water.

Pourable and injectable.

Environmentally friendly, no special disposal procedures required.

Washes away in cold tap water.

Compatible with all commercial resins and pre-preg compounds.

Makes complex part manufacturing simple.

Easily dried in a convection oven.

Easily repaired and re-formed.

Reduces labor.

Saves money.

Saves time.



Aquapour™ Specifications:

Compressive Strength:	~1500 – 2000 psi
Density Dry:	31.8 lbs. / cu. ft.
Coefficient of Thermal Expansion:	5×10^{-6} mm / mm° C

Aquapour™ is available in 5 and 55 gallon containers. Call or fax Aero Consultants for assistance with your specific manufacturing requirements.

Aquaseal™ is recommended to seal the tool and prevent resin migration.



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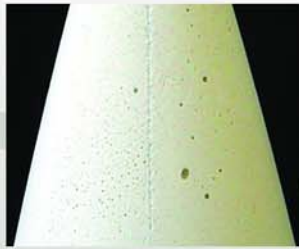


AQUAFILL™

Aquafill™ has been formulated to fill or patch the water-soluble mandrel materials **Aquacore™**, **Aquacore™ Premium** and **Aquapour™**. Once applied, **Aquafill™** will give the surface of the mandrel a smooth porcelain-like feel.

Aquafill™ is premixed and ready to use. Once the mandrel has been formed and dried in a convection oven, **Aquafill™** can be applied easily with a rubber squeegee, such as those used in autobody applications. **Aquafill™** takes slightly longer to washout, but just like the **Aquacore™**, **Aquacore™ Premium** and **Aquapour™** it is environmentally friendly and requires no special procedures for disposal.

Aquafill™ is available in Quart, 1/2 Gallon and 1 Gallon containers.



AQUASEAL™

Aquaseal™, specially formulated to seal the water-soluble mandrel materials **Aquacore™**, **Aquacore™ Premium** and **Aquapour™**, provides a smooth, nonporous finish on the surface of a mold or tool and inhibits the migration of resins into the porous tool during the lay up or RTM process.

Aquaseal™ is compatible with the core temperatures of commercial resins and pre-preg compounds up to 380°F/193°C, and washes away in minutes with tap water. **Aquaseal™** may be applied with an airless sprayer or a brush. Several coats can be applied. After achieving the desired finish, **Aquaseal™** can be dried in a standard oven at approximately 200°F/93°C for 20 minutes. When dried, **Aquaseal™** is thermally stable up to 380°F/193°C. To remove, simply wash away mandrel material and sealer with plain tap water. **Aquaseal™** is environmentally friendly; no special disposal procedures are required.

Aquaseal™ is available in Quart, 1/2 Gallon and 1 Gallon containers.



Call or fax Aero Consultants for assistance with your specific manufacturing needs.



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The watersoluble Mandrel Process

