

Product Testing and Support

There is extensive third party testing of Aquawrap® products including tensile, compression, long-term creep-rupture, various chemical exposure, thermal cycling, the testing properties at elevated temperatures and testing of repaired pipes and other structures under load.

Design recommendations and calculations pursuant to ASME PCC-2 are available. Installation planning and site support are also available.

Conforms to DOT regulations for Pipelines (49CFR, Parts 192, 195)

Validated under ASME PCC-2 Article B31.3, B31.4 and B31.8.



Advanced Composite Repair for Damaged Infrastructure and Piping



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Pipeline Reinforcement & Rehabilitation





Aquawrap® is ready to apply right out of the bag and cures by way of a chemical reaction with field-applied water. This offers considerable advantages over conventional cloth-resin systems in that there is no resin measuring, mixing, spreading, solvents, or dripping polymer mess.



Uses:

- Corrosion barrier & substrate for coatings
- Pipeline and tank repair & restoration
- Concrete column repair and restoration
- Infrastructure member repair & restoration
- Pier, piling, pole repair & restoration

Aquawrap® is a low cost composite system for use in repair and reinforcement of existing mechanical systems, structures and piping. Furnished factory impregnated with the proprietary 22-77 resin system, it is odorless and non-flammable. Cured Aquawrap® is a very durable, high strength material, impervious to fuels, most chemicals and solvents. It permanently bonds to a wide variety of metal surfaces as well as concrete, wood and plastics. Certified to ANSI/NSF Standard 61.

Features

- Excellent long term mechanical properties
- Low Cost
- Works in bad weather, underwater, or in splash zones
- No measuring, mixing, spreading or saturating
- No VOC's
- Non-hazardous shipping and disposal
- Available in 2", 3", 4", 6", 10", 12" standard widths and up to 160 feet in length

General Characteristics

Maximum Operating Temp—288°F

Working Time—60 minutes after package is opened

Cure Time—30 minutes nominal, after water application

Chemical Resistance—Resistant to acetone, MEK, toluene, gasoline and many others

Adhesion—1,000 psi (lap shear) to abraded carbon steel* 300 psi to concrete* using BP-1

Mechanical Properties

	Type G-03 woven glass Bi-axial fabric	Type G-05 woven glass Bi-axial fabric	Type G-22 knitted glass Bi-axial fabric	Type C-2 stiched carbon Bi-axial fabric
Reinforcement				
Dry Fabric Weight (oz./sq. yd)	12	24	26	18
Normal Thickness (mils)	15.5	25.5	38	37
Tensile Strength (psi)	50,089	46,525	31,555	77,605
Tensile Modulus (e-6psi)	2.78	2.63	1.98	6.45
Tensile Load, per ply (lbs)	814	1,175	1,196	2,897
HDT (F°)	325	325	325	325

