

AQUAWRAP

COMPOSITE REPAIR & PROTECTION SYSTEM

Water-activated composite wrap for structural repair and corrosion protection.

Aquawrap® is a low-cost composite system for repair and reinforcement of existing mechanical systems, structures and piping. Furnished as factory-impregnated fabric rolls in widths 2–12" with a proprietary water-activated polyurethane resin system. It is odorless and solvent-free. Cured Aquawrap® is a durable, high long-term strength material, impervious to fuels, most chemicals and solvents. It permanently bonds to metals, composites, concrete, plastics and wood. Meets ASME PCC-2 and ANSI/NSF Standard 61

APPLICATIONS: PIPELINES · FITTINGS · FLANGES · VALVES · STRUCTURAL REPAIR · TANK REPAIRS · IRREGULAR SHAPES

Key Features & Performance Benefits

- Water-activated polyurethane system
- Factory-impregnated fabric in sealed pouches
- No mixing, measuring or spreading resin
- Bonds to metal, concrete, plastic and wood
- Heat resistant up to 288°F (142°C)
- Chemical resistant
- Spiral, Circumferential, or Brick layer wrap
- Available as G-03 (Tape) and G-05 (Woven Roving)
- Meets ASME PCC-2 & ANSI/NSF Standard 61
- 2-year shelf life

Note: Once the sealed bag is opened, Aquawrap will begin to cure within ~60 minutes due to air humidity. Store at 60–90°F in a dry place. Use gloves, safety glasses, and appropriate PPE. For use by trained personnel only.

Details

Tensile Strength:

42,000 – 76,000 psi | Hoop and Transfer strength

Adhesion:

1,000 psi Lap Shear | Using BP-1 primer

Application Temp.:

40°F to 200°F (4°C – 93°C)

Service Temp.:

-60°F to 265°F (-50°C to 129°C)

Working Time:

30–40 minutes at 77°F (25°C)

Hard Cure:

30–60 minutes | Dry to touch

Full Cure:

1 day at 77°F (25°C)

Surface Prep:

SSPC-SP 10 / NACE No. 2 Near-White Metal Blast

Top Coat Application:

Apply as needed, 18–24 hrs after gassing stops

SPECIFICATIONS

Property	G-03 Fabric	G-05 Fabric
Tensile Strength (warp)	42,076 psi	45,400 psi
Tensile Strength (fill)	19,904 psi	45,400 psi
Tensile Modulus (warp)	3.2 msi	2.28 msi
Tensile Modulus (fill)	1.6 msi	2.28 msi
Thickness	147 mils	28.5 mils
Max Operating Temp.	265°F	265°F
Min Bond Strength	1,360 psi	989 psi
Hardness	85–95 Shore D	85–95 Shore D

PACKAGING: Pre-packaged sealed rolls | Widths: 2" – 12" | Shelf Life: 24 months from date of manufacture