CarbonSeal™

Building Stronger Bonds™

CarbonSeal™ is a high strength carbon fiber composite system designed for ASME PCC-2 Article 401 and ISO 24817 compliant repairs of process piping and vessels. CarbonSeal™ can be applied to process piping systems and pipelines to restore integrity lost due to corrosion. CarbonSeal™ repairs are fully supported with structural calculations performed by licensed professional engineers who specialize in composite design.

Durability

CarbonSeal™ has a proven +20-year in-service history, built on extensive durability testing in +300 chemicals and 20,000 hours of accelerated testing in acids, caustics, seawater, ultraviolet (UV) radiation and biologically active environments.

Specialized Systems

CarbonSeal™ is produced in a variety of specialized systems:

- CarbonSeal™CHEM - aggressive acid & caustic environments
- CarbonSeal™NSF - potable drinking water applications, or FDA Food Safe applications
- CarbonSeal™SubSea – Subsea and splash zone applications
- CarbonSeal™HT1 – high service temperatures up to 348ºF (176ºC)
- CarbonSeal™HT2 – high services temperatures up to 425ºF (218ºC)

Additional Protection

- 1 to 3 hour fire protection per UL-1709.
- CarbonSeal™ can be designed to dissipate static electricity (ESD) for use in intrinsically safe environments

Common Applications

- Flare Line Repairs
- Repair of ASME BPVC Section VIII-1 - Pressure Vessels, Division 1
- Cooling Water Piping
- Blow Down Lines
- Chemical Process Piping
- Repair of Internal / External Corrosion for ASME B31 Pressure Piping
- Weld Defects
- Repair of Soil-to-air interface Corrosion (SAIC) for cooling tower risers
- Microbiologically influenced corrosion (MIC)

Benefits

- Unmatched Strength per ply = less layers, reduced cost and faster installations
- No post-cure required
- Conforms to tees, elbows and straights
- Wide range of temperature and chemical resistance