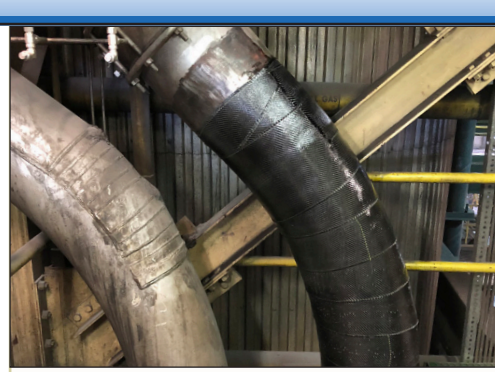
Product Datasheet: ARC CFW-CR

ARC CFW-CR is a fiber reinforced epoxy composite repair system which is compliant with ASME PCC2 Article 401 for low-risk applications. It incorporates a 100% solids, load transfer putty for faring smooth rough irregular surface, and highly chemically resistant, low viscosity saturating epoxy resin blend which is used to wet out and impregnate a carbon or glass fiber matt which is then applied to a damaged or weakened surface to improve structural integrity.

- Seals leaks
- Structurally reinforces weakened systems avoiding costly replacement
- Easily applied to pipe, tanks, equipment



Application Areas

- Tanks (steel or fiberglass)
- Pressure vessels
- Pipes
- Elbows, flanges, and fittings
- Equipment casings
- Heat exchanger shells
- Ducting
- Structural beams

Packaging and Coverage

- CFW-CR comes in a package able to repair pipes up to 24" in diameter. Contact your ARC salesperson for larger packaging options available.
- Each kit contains the following.
  - 2 x 250 packs of ARC 858 (faring compound)
  - 1.2 gallons of ARC CFW-CR saturating resin blend
  - 12" x 3.5' Bidirectional glass fiber mat
  - 12" x 19.5' Bidirectional carbon fiber
  - Mixing and application tools
  - Nitrile gloves

Features and Benefits

- **ARC 858 is 100% solids**
  - Proven pit filler and faring compound
  - Full compatibility to CFW wrap system
- **ARC CFW-CR resins are 100% solids**
  - Enhances safe use
  - Minimal shrinkage on cure increases durability
  - Rated for aggressive chemical exposures
- **Very low mixed viscosity of saturating resin blend**
  - Helps ensure proper wetting of fabric and maximum strength of repair
- **Glass fiber and Carbon fiber mat**
  - Glass Fiber (GF) is galvanic barrier to improve corrosion resistance when required
  - Carbon Fiber (CF) is a structural reinforcement to maximize strength to weight ratio

Technical Data with Carbon Fiber			
Saturant Density		1.1 g/cc	9.2 lbs/g
Tensile Strength	ASTM D3039	659.1 MPa	95,600 psi
Tensile Modulus	ASTM D3039	29,620 Mpa	4,296 ksi
Elongation	ASTM D3039		1.47 %
Flexural Strength	ASTM D790	407.5 MPa	59,100 psi
Flexural Modulus	ASTM D790	16,478 Mpa	2,390 ksi
Lap Shear Adhesion	ASTM D5865	23.9 Mpa	3,465 psi
Tensile Pull Off Adhesion	ASTM D4541	20.7 Mpa	3,000 psi
Barcol Hardness	ASTM D2583		40
Heat Distortion Temperature	ASTM D648	118°C	245°F
Maximum Recommended Service Temperature		93°C	200°F
CF-500 BD Mat Thickness		0.9 mm	0.038"

CHESTERTON
Global Solutions, Local Service.

A.W. Chesterton Company
860 Salem Street, Groveland, MA 01834 USA
Tel +1 978-469-6888 Toll Free 844-469-6888
Chesterton.com ARCInfo@Chesterton.com