



Contour Apex™

Contour Apex is a custom-engineered and optimized composite system for high-pressure pipeline repairs. It employs a robust, bi-directional fiberglass with a specially formulated epoxy system to reinforce external corrosion and mechanical damage such as dents, wrinkle bends, and gouges on transmission and distribution lines.

Light-weight, corrosion-resistant Contour Apex helps keep critical pipelines in service during installation, fits to complex geometries, and installs over laminations and thin-wall pipelines where welding cannot succeed. Repairs are fast, restoring the pipe beyond its original strength.

APPLICATIONS

- External corrosion and mechanical damage
- Distribution pipelines
- Transmission pipelines

COMPLIANT WITH:

(standards/regulations)

- US CFR 192 (Gas) and 195 (Liquids)
- ASME B31 Standards
- ASME PCC-2
- CSA Z662
- ISO 24817
- API 570 and 653

BENEFITS:

- Extends the life of aging and corroding assets
- No pipe cutting or welding to in-service pipelines
- Prevents future external corrosion
- Can install on laminations and thin-wall pipe
- Does not mask future ILI inspection of repaired defect



QUALIFICATION DATA

PROPERTY	CIRCUMFERENTIAL DIRECTION	AXIAL DIRECTION
Tensile Strength	84.7 ksi (585 MPa)	26.8 ksi (185 MPa)
Tensile Modulus	4.90 Msi (33.7 GPa)	1.82 Msi (12.5 GPa)
Ply thickness	0.042" (1 mm)	
Glass Transition Temperature	257°F (125°C)	
Hardness	85	
Max Recommended Application Temperature	120°F (50°C)	
Shelf Life	12 months	

CURE SCHEDULE (HOURS)			
Temperature		Option 1 Recommended	Option 2
(°F)	(°C)		
77	25	24	
140	60		18

REPAIR SYSTEM COMPONENTS

- Filler: EPN-242, EPN-101
- Primer: PPR-220, PPR-290
- Resin: SFE-220
- Fabric: FEM-380

WARRANTY CSNRI routinely implements product improvements. Please contact your local distributor or office for the most current product specifications. CSNRI warrants the quality of this product when used according to directions.

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ISO 9001 Certified