

WeldWrap™



“The ONLY Composite Repair Sleeve Designed for Girth Weld Zone Reinforcement”

- *D.O.T./CSA/ASME PCC-2/ISO TS-24817 Compliant • No Shutdown*
- *No Hot Work • No Heavy Equipment • 30 Minute Installation*
- *“Smart Pig” Detectable • Diamond Lock Technology*



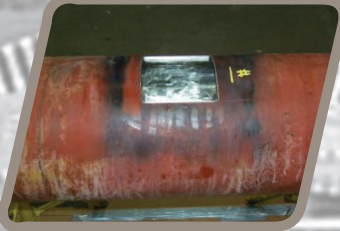
THE COMPOSITE TECHNOLOGY COMPANY
2701 State Highway 322 Longview, Texas 75603



IC-QM-2405237

AN ADVANCEMENT IN PIPE REPAIR

Defect – 6.5" x 6.5" x .300" Deep



Completed Installation



Pipe Body Failure @ 4,260 psi



WeldWrap™ Kit:

- ◆ WeldWrap™ Composite Sleeves – use a superior laminate construction with proven materials to form a high tensile strength rigid “magnetically detectable” fiberglass wrap for the PERMANENT structural reinforcement of external defects to 80% wall loss.
- ◆ Two-part proprietary Adhesive System used to bond the WeldWrap™ Sleeve to the pipe surface and to composite layers to form a monolithic structure.
- ◆ Two-part proprietary high compressive strength Putty used to fill all cavities and tented areas to ensure a “load-transfer” path from the pipe surface to the WeldWrap™ Sleeve.
- ◆ Installation Accessory Kit provides all items to properly apply the WeldWrap™ System with minimal additional tooling.
- ◆ The WeldWrap™ System Repairs 4" thru 60" Diameter Piping.
- ◆ The WeldWrap™ Kit comes in two (2) standard widths – 12" & 18".
- ◆ Manufactured under US Patent # 6,774,066

Repair:

- ◆ Corrosion Defects
- ◆ Blunt Dents and Gouges
- ◆ Girth Weld Zone
- ◆ Vertical & Horizontal Piping
- ◆ Corrosion at Pipe Supports

Testing:

- ◆ Cyclic Fatigue to 120,000 Cycles
- ◆ Dent Fatigue to 305,000 Cycles
- ◆ Hydrostatic Burst - Bare Pipe & Reinforced
- ◆ Adhesive Bond Testing
- ◆ Tensile Strength Evaluations
- ◆ Compressive Strength Evaluations

Material Properties:

Set Time

Max Operating Temperature

Tensile Strength

Tensile Modulus (psi)

Flexural Strength (psi)

Flexural Modulus (psi)

% Elongation @ 77 °F – Composite

% Elongation @ 77 °F – Adhesive

% Elongation @ 77 °F – Putty

Lap Shear Strength @ 140 °F – Adhesive (psi)

Compressive Strength @ 140 °F – Putty (psi)

Hardness – Shore A Top Coat and Back fill

2 Hours @ 75°F - 24°C

225 °F/107°C

90,000 psi

5.0 msi

12,000 psi

4 msi

1%

40%

<1%

1,082 psi

8,772 psi

30-40

For more information visit us at: www.wrapmasterglobal.us or email us at: sales@wrapmaster.us

