

WeldWrap™



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

- *“Smart Pig” Detectable • Diamond Lock Technology*
- *No Shutdown • No Hot Work • No Heavy Equipment*
- *D.O.T. Compliant • 2-Man 45 Minute Installation*



Composite Solutions for Piping and Structures

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Longview, TX (903) 643-8080

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AN ADVANCEMENT IN PIPE REPAIR

Pipe Specimen: 12.75" O.D. x .375" Wall; API-5LX-52

Defect - 6.5" x 6.5" x .300" Deep

Completed Installation in 35 minutes

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 "blunt" type external defects to piping with up 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 56" 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:

<i>Cure Time</i>	<i>2 Hours</i>
<i>Max Operating Temperature</i>	<i>130 °F/55°C</i>
<i>Chemical Resistance (pH range)</i>	<i>4-11</i>
<i>Tensile Strength</i>	<i>90,000 psi</i>
<i>Tensile Modulus (psi)</i>	<i>5.5 msi</i>
<i>Flexural Strength (psi)</i>	<i>26,000 psi</i>
<i>Flexural Modulus (psi)</i>	<i>2 msi</i>
<i>% Elongation @ 77 °F - Composite</i>	<i>1%</i>
<i>% Elongation @ 77 °F - Adhesive</i>	<i>40%</i>
<i>% Elongation @ 77 °F - Putty</i>	<i><1%</i>
<i>Lap Shear Strength @ 140 °F - Adhesive (psi)</i>	<i>1,600 psi</i>
<i>Compressive Strength @ 140 °F - Putty (psi)</i>	<i>10,000 psi</i>
<i>Hardness - Shore D</i>	<i>78</i>

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