

# *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*



***Composite Solutions for Piping and Structures***

2701 State Highway 322 Longview, Texas 75603

Longview, TX (903) 643-8080

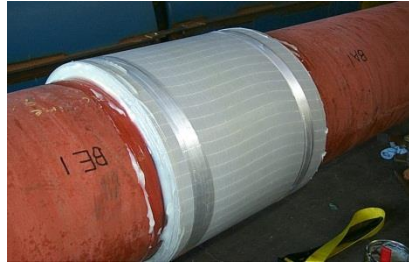
Corpus Christi, TX (281) 639-5847

# AN ADVANCEMENT IN PIPE REPAIR

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 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:

<i>Cure Time</i>	<i>2 Hours</i>
<i>Max Operating Temperature</i>	<i>161 °F/72°C</i>
<i>Tensile Strength</i>	<i>90,000 psi</i>
<i>Tensile Modulus (psi)</i>	<i>5.0 msi</i>
<i>Flexural Strength (psi)</i>	<i>12,000 psi</i>
<i>Flexural Modulus (psi)</i>	<i>4 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>&lt;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](http://www.wrapmaster.us) or email us at: [sales@wrapmaster.us](mailto:sales@wrapmaster.us)