

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*

WrapMaster

Composite Solutions for Piping and Structures
2701 State Highway 322 Longview, Texas 75603

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:

| | |
|--|-----------------------|
| Set Time | 2 Hours @ 75°F - 24°C |
| Max Operating Temperature | 225 °F/107°C |
| Tensile Strength | 90,000 psi |
| Tensile Modulus (psi) | 5.0 msi |
| Flexural Strength (psi) | 12,000 psi |
| Flexural Modulus (psi) | 4 msi |
| % Elongation @ 77 °F - Composite | 1% |
| % Elongation @ 77 °F - Adhesive | 40% |
| % Elongation @ 77 °F - Putty | <1% |
| Lap Shear Strength @ 140 °F - Adhesive (psi) | 1,082 psi |
| Compressive Strength @ 140 °F - Putty (psi) | 8,772 psi |
| Hardness - Shore A Top Coat and Back fill | 10-15 |

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