

# RISER-WRAP®

The Riser-Wrap® seal is a two-layer system designed for corrosion and sealing protection on pipelines and encapsulating manholes to seal joints against ground water infiltration.

The first layer is a visco-elastic adhesive liquid sealant covered by a heat shrink sleeve. The heat shrink is a thick-walled .098" (2.5mm), cross-linked, high density polyethylene membrane.

## APPLICATIONS

- » Manhole Encapsulation/ Sealing
- » Pipelines
- » Repair and Rehabilitation
- » Step-down Joints
- » Square/Rectangular Vaults
- » Septic Tanks/Vaults



RISER-WRAP® SQUARE VAULT APPLICATION

## FEATURES AND BENEFITS

### Low Preheat Requirements

- » Preheat required only to remove the moisture from the surface and for fast/easy installation

### Offers Permanent Heat Change Indicators

- » Permanent Heat Indicator ensures that the correct application of heat has been applied to the entire heat shrink sleeve
- » Installation is fully inspectable at any time after the installation

### High Modulus of Elasticity Backing

- » Accommodates ground movement.

### High Impact and Penetration Resistance

- » Toughness to resist soil stress

### High Shrink Force

- » Optimizes flow and fill of visco-elastic adhesive sealant
- » Seals against ground water infiltration

### Impermeable

- » Provides corrosion protection
- » Extends structure life

### No Special Tools

- » Quick & easy installation

### Sizing Calculation Program

- » On-line at [www.gptindustries.com](http://www.gptindustries.com)

## PROPERTIES

	ASTM Test	Test Results	
<b>ADHESIVE</b>			
Softening Point	ASTM E-28	205°C	400°F
Lap Shear	ASTM D-1002	12N/cm <sup>2</sup>	18psi
<b>BACKING</b>			
Tensile Strength	ASTM D-638	22mPa	3,300psi
Elongation	ASTM D-638	650%	
Hardness, Shore D	ASTM D-224	58 Shore D	
Shrink Force	ASTM D-638	26N/cm <sup>2</sup>	38psi
Dielectric Strength	ASTM D-149	20KV/mm	500KV/in.
<b>SLEEVE</b>			
Peel Strength	ASTM D-1000	20N/cm	11lb/in.
Water Absorption	ASTM D-570	0.05%	
Low Temp. Flexibility	ASTM D-2671	-40°C	-40°F
Penetration Resistance	ASTM G-17	Pass	

## TYPICAL SPECIFICATIONS

### 1.0 Scope

Apply RISER-WRAP® heat shrinkable sleeve on exterior concrete manholes or other structures at locations indicated by the Engineer to protect manhole and reduce infiltration or ingress of water and other contaminants. The sleeve needs be applied over a cleaned, primed surface.

### 2.0 Sleeve - High Density Polyethylene Membrane

The heat shrinkable sleeve consists of an 11" or 17" wide wrap-around, 2.5mm thick, cross-linked high density polyethylene membrane complete with a mastic. Peel Strength is a minimum of 11 lb./in. per ASTM D 1000. Tensile Strength is 3,300 psi minimum per ASTM D-638. Mastic softening point should meet or exceed 400°F in accordance with ASTM E-28. Sleeve will incorporate permanent heat indicators, to assure proper heating.

### 3.0 Joiner-Strip

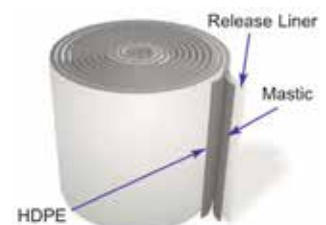
The material to close the sleeve consists of a high density polyethylene fiber reinforced material to assure sleeve pulls tight. Lap Shear on assembled system will exceed 18psi per ASTM D-1002.

### 4.0 Primer

Primer is a Polyken 1027 or 1039. Primer needs be black in color and applied at a rate of approximately 2 – 3 mills. Must be able to dry with-in one hour.



RISER-WRAP® VACUUM TEST



Available in 17", 11" and 5.5" widths x 50 ft. rolls.