

SpiderWrap

Innovative Composite Permanent Pipeline Repair Systems



SPIDERWRAP HIGH STRENGTH (HS) WRAP

SpiderWrap HS is an innovative, high strength piping remediation wrap. It consists of a proprietary glass fiber reinforcement fabric, factory impregnated with durable, moisture cured polyurethane (MCU) resins.

SpiderWrap HS offers complete external piping remediation, repair, reinforcement, and/or complete hoop strength replacement to any size piping, constructed of virtually any material, and it's flexibility allows installation on any shape or configuration, including elbows, manifolds, tees, reducers or bends.

SpiderWrap HS is an efficient, economical, easy to use alternative to any other repair product, or replacement. In most applications, the need for pressure reduction is minimized and downtime is eliminated.

SpiderWrap HS is highly chemical resistant, non-conductive and temperature resistant to more than 650 deg. F. after cure.

SpiderWrap HS is a proven product, currently successfully used in numerous applications in many industries worldwide.



GENERAL PREPARATION AND APPLICATION PROCEDURE

- Clean pipe surface to as near white metal as possible
- If pitting is present, fill pits with one of our specified epoxy fillers
- Coat the surface to be wrapped with BD-563 Epoxy Base
- Install the **SpiderWrap HS** to the calculated specified number of layers, wetting continuously
- Pull each layer tightly and work into previous layer for bond
- Smooth and wet continuously, then install 2 layers of the retaining structure banding over the top layers to assure a smooth finish and monolithic reinforcement

MECHANICAL PROPERTIES

Operating Temperature	-65° to 650° F. after cure	
Tensile Modulus	3.8 x 10 ⁶ psi	ASTM D3039
Tensile Strength	65,000 psi	ASTM D3039
Flexural Modulus	3.6 x 10 ⁶ psi	ASTM D3039
Flexural Strength	53,100 psi	ASTM D3039
Ply Thickness	.011 inches (11 mils)	
Compressive Strength	28,500 psi	ASTM D3039
Dielectric Strength	Non-conductive when cured (16,000 volts)	
Working Time	20-30 minutes, temperature dependent	
Hardness	85 shore D nominal	
Load per ply per Inch or width	715 pounds	
Load per ply per Inch for 20 year+ life designs	425 pounds	
Code Compliance	Allowed for "D.O.T." pipeline repairs under 49 CFR, Parts 192 and 195, as well as being validated and certified for use under the ASME PCC-2 Article for B31.3, B31.4 and B31.8.	
Shelf Life	One year if stored between 40°--83°F and aluminum packet is not punctured. Do not use if product is hardened. Rotate stock for best results.	
NO EFFECT Chemical Resistance (40 Day Immersion Test Period)	Hydrochloric Acid MEK Ethylene Glycol Crude Oil Ethyl Alcohol Black liquor Sulfuric Acid	Ammonia Diesel Acetone Toluene Gasoline Xylenes
Cure Time	1 hour at temperatures between 50°--80°F	



Available Sizes	2" x 12'
	3" x 10'
	3" x 30'
	4" x 15'
	4" x 30'
	4" x 50'
	6" x 30'
	6" x 60'
	10" x 60'
	10" x 90'
	10" x 120'
	10" x 150'
	12" x 90'
12" x 120'	
12" x 150'	



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