

## HRSS-DD Direct Drill Heat Shrinkable Wrap Around Sleeve High Performance Fiberglass Reinforced Coating Protection Sleeve

GUARDIAN HRSS-DD is designed for girth weld joint corrosion protection on pipe in directional drilling and offshore pipe coating protection applications.

### CONFIGURATION

#### Three-Layer System

- **First Layer:** Liquid epoxy primer CP-1, solvent-free, two-component
- **Second Layer:** High shear strength hot-melt copolymer adhesive
- **Third Layer:** High performance fiberglass reinforced radiation cross-linked polyethylene backing, backing with TIP (Temperature Indicator Pattern) optional

### BENEFITS

- **Adhesion Properties:** Excellent Epoxy Primer and Hot Melt Adhesive enabling lower installation pre-heat temperature and superior bonding to steel, PE, PP and FBE coated pipe. Offers Resistance to Cathodic Disbondment, Moisture and Shear Forces induced by soil and thermal movements.
- **Fast and Easy Application:** User friendly with cost benefits.
- **Heat Temperature Indicator:** Sleeve Backing Pattern is an Indicator for the Heat Requirement during Application.
- **Service Life:** 30+ years

### APPLICATION GUIDE

Standard reference	EN 12068 Class C
Compatible line coatings	FBE, PE, PP
Soil stress restriction	None
Max operating temperature	80°C (176°F)
Min Preheat temperature	70°C (158°F)
Recommended pipe preparation	SA 2 <sup>1/2</sup> or ST3.0

### ORDERING GUIDE

<b>HRSS Heat shrinkable direct drill wrap around sleeve, could be ordered bulk rolls or in kit</b>	
<b>Example</b>	HRSS 3.0 600
<b>HRSS DD</b>	Heat shrinkable direct drill wrap around sleeve
<b>600</b>	Sleeve width, mm
<b>3.0</b>	Sleeve thickness, mm
<b>30</b>	Sleeve length 30m (roll)

### PROPERTIES

Property	Test Method	Typical Value
<b>Backing</b>		
Bursting Strength	DIN 30672	2400N
<b>Adhesive</b>		
Softening Point	ASTM E 28	122°C
Lap Shear	EN 12068	3N/mm <sup>2</sup>
<b>Sleeve</b>		
Peel Strength to Primer @23°C	ASTM D1000	85N/cm
Peel Strength to Factory Coating @23°C		85N/cm
Cathodic Disbondment	EN 12068 30 Days @65°C	8mm

HRSS-DD to be installed with CP-1 Epoxy Primer (Epoxy ordered separately).

Standard Specification backing thickness: 1.5mm. Adhesive thickness: 1.0mm. Custom specification requirements are available.

### PACKAGING

Part No.	Width	Length
HRSS 3.0 600	600mm	30m
HRSS WEARCONE 3.0 100	100mm	30m

Other sizes are available on an indent basis.

### SHELF LIFE

2 years, under correct storage conditions in a dry, well ventilated area, in original sealed cartons between -20°C and 40°C

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