

## HRSS-DD Direct Drill Heat Shrinkable Wrap-around Sleeve

High performance fiberglass reinforced coating protection sleeve

### Description

HRSS-DD is designed for girth weld joint corrosion protection on pipe used in directional drilling application or offshore towing pipe outer coating protection.

**Construction:** 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.



### Features & Benefits

- HRSS-DD has excellent resistance to shear and peel force after installed and offers abrasion and wear resistance at pull through application.

Simultaneously HRSS-DD has excellent anti-corrosion performance and easy installation, it could be installed cover wet epoxy primer instead of dry epoxy primer coating.

Application guide	Ordering guide
Performance	EN 12068 Class C ISO21809-3 14C
Compatible line coatings	FBE, PE, PP
Soil stress restriction	None
Max operating temperature	65°C (149°F)
Min preheat temperature	70°C (158°F)
Recommended pipe preparation	SA 2½ or ST 3.0
	(15)
	HRSS-DD Heat shrinkable direct drill wrap around sleeve, could be ordered bulk rolls or in kit
	Example: HRSS-DD 20"×3.0(15)
	HRSS-DD Heat shrinkable direct drill wrap around sleeve
	Sleeve width, inch
	Sleeve thickness, mm
	Sleeve length 15m(roll)

### Specification

All specification of HRSS-DD is in accordance with difference pipeline diameter with outer corrosion protection. Backing thickness is 1.8mm and adhesive thickness is 1.2mm. If need, other specification is available, please make note in the order.



Manual Application



Induction heating application

Property	Test Method	Typical Value HRSS-DD
Impact resistance 23°C Class C50	DIN 30672	No holidays when tested at 20kV >70% of original resistance thickness left
Indentation resistance: 60°C Pressure Residual thickness	ISO21809 Annex E	10.0N/mm <sup>2</sup> 2.3mm
Peel Strength at 10 mm/min to pipe surface and to polyolefin plant coating 23°C 60°C	ISO21809 Annex H.1	15.3N/mm 1.2N/mm
Peel strength at 10 mm/min to pipe surface and to polyolefin plant coating after 100-day hot-water immersion test at Tmax limited 23 °C P100/P0	ISO21809 Annex H & Annex I	>0.80
Lap shear strength at 10 mm/min 23°C 60°C	ISO21809 Annex J	3.8N/mm <sup>2</sup> 0.43N/mm <sup>2</sup>
Cathodic disbondment resistance 23°C 60°C 30days	ISO21809 Annex G	3.0mm 7.5mm
Bursting strength of reinforced backing (B100/B70) 23°C	ISO21809 Annex O	>0.80
Bursting strength of reinforced backing 23°C	ISO21809 Annex O	2620N

**Service Life:** More than 30 years

**Normal Packing:** Carton (Maximum 45kg)

**Storage Condition:**

- To ensure maximum performance, store CHERAY POLYMER products in a dry, ventilated area.
- Keep products sealed in original cartons and avoid exposure to direct sunlight, rain, snow, dust or other adverse environmental elements.
- Avoid prolonged storage at temperatures above 38°C or below -15°C.
- Product installation should be done in accordance with local health and safety regulations.

**Shelf life:** 18 months, under correct storage condition.