

PRODUCT DATA SHEET

HBMS100 Heat Shrinkable Wrap-around

2-layer Girth Weld Field Joint Coatings

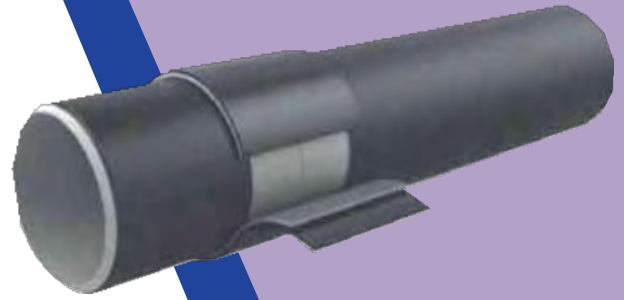
Description

HBMS100 Heat shrinkable wrap-around sleeve is designed for corrosion protection of girth weld joint buried steel pipeline, especially for 3LPE/3LPP/DFBE/FBE/CTE/HDPE/AE factory coating pipeline.

Construction : Two-Layer system

First layer : Low-preheat Adhesive (Mastic sealant / Hotmelt/ Butyl base)

Second layer: Radiation cross-linked, high density polyethylene backing, backing with SIP (Shrink Indicator Pattern)



Features & Benefits

- Saves time and cost by lower pre-heat temperature.
- Excellent performance for aging and provide best shelf life.
- Excellent multi-functional adhesive allow for lower installation pre-heat temperature and super bonding to PE/DFBE/FBE/CTE/HDPE/AE offer fully resistant to shear forces induced by soil and thermal movements
- Covers a wide range of operating temperature ratings, offers the optimum barrier long term protection against corrosion
- Embossed backing provides a Shrink Indicator Pattern for application of heat, ensures correct application heating

Selection Criteria

HBMS100	
Standard Reference	EN 12068, ISO 21809-3 14A2 & A3, AWWAC216
Compatible line coatings	PE/FBE/DFBE/CTE/HDPE/AE
Soil stress restriction	Moderate
Max. operating temperature	100°C
Pre-heat temperature	90°C
Recommended pipe preparation	Min. St 2~3

Ordering Information

HBMS100 type products are available:

- ▶ As cut piece (pre-cut sleeve with separate closure patch)
- ▶ As a roll (closure patches to be ordered separately)

Select sleeve width that will overlap onto the mill-applied coating by 2 inches (50 mm) minimum on each side of the weld joint

Sleeve width (mm): 16", 18", 20", 24"

Other width (10"-36") are available as per Customer special requirement.

Product thickness (mm)		
Backing (as supplied)	Adhesive (as supplied)	Total thickness (applied)
0.8 ~ 1.1	1.0 ~1.8	1.8 ~3.0

Other sleeve thickness from 1.4 to 3.2mm are available as per requirement.

Standard Ordering Options

Cut piece (Pre-Cut sleeve with separate closure patch)		Roll form (closure patches to be ordered separately)	
Example:	HBMS100-12 X18/2.2	Example:	HBMS100-18 X100/2.2-RL
100	Operating Temperature 100°C	100	Operating Temperature 100°C
12	Outside pipe diameter in inch	18	Roll width in inch
18	Sleeve width in inch	100	Roll length in feet
2.2	Sleeve thickness in mm	2.2	Roll thickness in mm
		-RL	Supplied in rolls

Sleeve cut lengths and appropriate closure patch widths depend on the pipe size and product construction, refer installation Manual.

Closure Patch

Example: CP-4X18

4	Closure patch width in inches	4" (100 mm), 6" (150 mm), 8" (200 mm)
18	Closure patch length in inches	16", 18", 20" 24"

Product Properties

PE Backing

Properties	Test Method	Typical Values
Tensile strength	ASTM D-638	23MPa
Elongation	ASTM D-638	620%
Hardness, Shore D	ASTM D-2240	55
Shrink force @ 150°C	ASTM-638	40 psi
Di-electric voltage breakdown	ASTM D-149	35kV/mm
Moisture absorption	ASTM D-570	0.04%

Adhesive

Softening point	ASTM E-28	>120°C
Lap shear @ 23°C	ISO 21809-3	30N/cm ²

Sleeve

Peel to Steel @23°C	ISO21809-3	50 N/cm
Peel to Steel @23°C	AWWA C216/ASTM D1000	43 pli
Impact Resistance	ISO21809-3	5 J/mm. No Holiday
Hot Water Immersion 100 days @80°C	ISO21809-3	P100/P0 ≥0.75
Cathodic disbondment @23°C	ISO21809-3	< 8.5mm
Low Temperature Flexibility	ASTM D-2671-C	-40 °C

Note: The typical values in this data sheet are based on lab prepared samples. For project specific requirements please consult with SNI INDIA

Storage: Indoor, clean, dry away from direct sunlight in a cool place below +50°C

Installation: For proper installation and performance please refer our installation instruction

Personnel Qualification: Installation of the HBMS100 coating system should be carried out by SNI INDIA certified personnel



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