



One-Piece Heat-Shrinkable Sleeve for Corrosion Protection of Girth Weld Joints on Various Types of Piping Systems

Product Description

TPSM field joint coating and sealing

Construction: two-layer system

First layer: visco-elastic mastic sealant

Second layer: thick-walled, radiation-cross-linked, high density polyethylene

TPSM is a heat-shrinkable, tubular sleeve which prevent corrosion of welded pipe joints in distribution lines for sizes up to 8.625"/DN200. For larger sizes, the use of the Covalence wraparound sleeve, WPC, is recommended. This mechanically strong and flexible sleeve is compatible with all standard pipeline coatings and outer jackets.

The installation is carried out directly on the cleaned and dried (pre-heated) pipe surface without primer. Heat is applied to the sleeve, which shrinks to form a tight fit around the joint. While shrinking, the visco-elastic sealant homogeneously flows to cover the complete surface and fills in all surface irregularities.

Product Features / Benefits

- **Dimpled backing provides a "Permanent Change Indicator" (PCI) for application of heat**
Ensures correct application of heat & allows easy post-heat inspection. Reliable inspectability at any time.
- **No primer required**
Saves installation time.
- **Low preheat sensitivity & proven functionality**
Allows easy application combined with high functional performance. Saves installation time.
- **Mechanically strong & resists abrasion, impact and penetration**
Reliable and tough. Remains user-friendly (even at low temperatures).
- **Specially formulated sealants**
Ensures a strong bond & a tight seal. Provides high peel and shear values after installation.
- **Sealing adhesive automatically flows and repairs minor mechanical damages**
"Self-healing effect". Saves time.
- **No special equipment or skills required**
Makes installation fast and easy. Keeps installation costs low.

Product Selection Guide

	TPSM-C30
Max Operating Temperature	65°C (149°F)
Compatible Line Coatings	PE, FBE, PP, Tape, Coal tar and Asphalt
Min Preheat Temperature	60°C (140°F)
Recommended Pipe Preparation	Clean, dry and free of grease
Soil Stress Restrictions	moderate
Performance	EN12068 class C30

Product Thickness

	TPSM-C30
Backing (as supplied)	0.85 mm (0.034 in.)
Backing (fully free recovered)	1.4 mm (0.055 in.)
Adhesive (as supplied)	0.94 mm (0.037 in.)

Product Properties: TPSM-C30

		TPSM-C30
Property	Test method	Typical value
Backing		
Tensile strength	EN12068	24 MPa
Elongation	EN12068	600%
Hardness, Shore D	ASTM D-2240	58
Hot modulus at 100%	ASTM D-638	39 psi
Elongation (Shrinkforce)	150°C (302°F)	
Water absorption	ASTM D570	0.04%

Adhesive		
Softening point	ASTM E-28	134°C (273°F)
Shear strength	EN12068 @ 10 mm/min	0.07 N/mm ²
Sleeve		
Peel strength	EN12068 @ 10 mm/min	1.9 N/mm
Impact resistance	EN12068	> 15 J
Indentation resistance	EN12068 class C30 (10N/mm ²)	1.1 mm *
Cathodic disbondment	EN12068 30 days	4 mm radius

* Remaining thickness

Note : all tests are @23 °C (73° F) unless specified otherwise

Ordering Information

TPSM-C30 type products are available:

- as ready-to-size tubular sleeves

Drawing sleeve width, pipe diameter

Take a 10% shrinkage during installation of sleeve width into account when calculating the minimum sleeve width.

Example: TPSM-C30-450-DN100

		TPSM-C30
C30	Performance classification	C30
DN100	Nominal pipe diameter In DN	DN50 (2.375") Supplied diameter: 80 mm - Recovered diameter : 50 mm DN80 (3.500") Supplied diameter: 120 mm - Recovered diameter: 80 mm DN100 (4.500") Supplied diameter: 150 mm - Recovered diameter: 100 mm DN150 (6.625") Supplied diameter: 195 mm - Recovered diameter: 125 mm DN200 (8.625") Supplied diameter: 255 mm - Recovered diameter: 165 mm
450	Sleeve width In mm	450 mm (17.75") (DN50-DN200) 600 mm (23.50") (DN100-DN200)

* For pipe sizes exceeding DN200, the use of wraparound WPC sleeves is recommended.

DS-TPSM-C30-REV1-SEP10-LEXP5-0025



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Local Distributor / Representative:

For contact details of local Distributors / Representatives
Please visit www.berrycpg.com.

Headquarters
Franklin, MA, USA
Tel: +1 508 918 1714
US Toll Free: +1 800 248 0149
Fax: +1 508 918 1910
CPG@berryplastics.com

Houston, TX, USA
Tel: +1 713 676 0085
US Toll Free: +1 888 676 7202
Fax: +1 713 676 0086
CPGH@berryplastics.com

Tijuana, Mexico
Tel USA +1 858 633 9797
Fax US: +1 858 633 9740
Tel Mexico: +52 664 647 4397
Fax Mexico: +52 664 607 9105
CPGTJ@berryplastics.com

Westerlo, Belgium
Tel. +32 14 722500
Fax +32 14 722570
CPGE@berryplastics.com

Baroda, India
Tel: +91 2667 264721
Fax: +91 2667 264724
CPGIN@berryplastics.com