



Heat-shrinkable tubular pipe sleeve for corrosion protection and sealing of mechanical couplers & fittings on pipelines.

## Product description

**CPSM fittings & mechanical coupler coating and sealing.**

**Construction:** two-layer system:

**first layer:** visco-elastic mastic sealant.

**second layer:** thick-walled, radiation-cross-linked, high density polyethylene.

CPSM, is a thick-wall, high expansion heat-shrinkable tubular sleeve remarkable for its high shrink ratio allowing awkward, irregular shapes to be coated easily. This makes it specifically useful for corrosion prevention and sealing of screw- or other mechanical couplers in distribution networks.

CPSM is typically used for small diameters and high percentage transitions.

CPSM can also be used on small diameter bends, like riser bends.

The installation is carried out directly on the cleaned and dried (pre-heated) coupler & pipe surface without any primer being required. CPSM is positioned on the pipes prior to coupling them together and, after installation of the coupler, slid centrally over the joint to be protected. When heated, the CPSM sleeve shrinks and the sealant melts, encapsulating mechanical couplings and straight pipes with a strong impervious seal. While the sleeve conforms to the shape of the coupling or pipe, the melted sealant is forced into all surface irregularities providing a permanent environmental seal.

## Product features/benefits

- **No primer required**  
No drying time and easy application.
- **Low preheat sensitivity & proven functionality**  
Allows easy application combined with high functional performance.
- **Highly resistant**  
Trustful as CPSM resists bending, impact, abrasion, penetration, corrosive gases or fluids, disbonding and long-term storage. Remains user-friendly (even at low temperatures).
- **Copes with difficult shapes**  
Makes installation & protection a child's play. Saves time and money.
- **Specially formulated sealants**  
Ensures a strong bond & impervious seal.
- **Self-healing effect**  
Saves extra intervention steps (Sealing adhesive automatically flows and seals off minor mechanical damages).
- **Copes with relatively high transitions (high shrink ratio)**  
Minimizes inventory, thus economical.
- **No special equipment or skills required**  
Makes installation fast and easy. Keeps installation costs low.

## Product selection guide

	CPSM/87	CPSM-C30
<b>Max operating temperature</b>	30°C (86°F)	30°C (86°F)
<b>Compatible line coatings</b>	PE, FBE, Tape, Coal tar Asphalt, Plastics	PE, FBE, Tape, Coal tar Asphalt, Plastics
<b>Min preheat temperature</b>	60°C (140°F)	60°C (140°F)
<b>Recommended pipe preparation</b>	Clean, dry and free of grease	Clean, dry and free of grease
<b>Soil stress restrictions</b>	None	None
<b>Performance</b>		EN12068 class C30

## Product thickness

	CPSM/87	CPSM-C30
Backing (as supplied)*	0.028 - 0.047 in. (0.7 - 1.2 mm)	0.028 - 0.047 in. (0.7 - 1.2 mm)
Backing (fully free recovered)*	0.091 in. (2.30 mm)	0.091 in. (2.30 mm)
Adhesive (as supplied)	0.028 in. (0.7 mm)	0.028 - 0.035 in. (0.7 - 0.9 mm)

## Product properties: CPSM/87 - CPSM C30

Property	Test method	CPSM/87	CPSM-C30
		Typical value	
<b>Backing</b>			
Tensile strength	ISO R527	20 MPa	20 MPa
Elongation	ISO R527	580%	580%
Hardness, shore D	ASTM D-2240	55	55
Shrink force	ASTM D-638 150°C (302°F)	40 psi	40 psi

Property	Test metho	CPSM/87	CPSM-C30
		Typical value	
<b>Adhesive</b>			
Softening point	ASTM E-28	94°C (201°F)	134°C (273°F)
Shear strength	EN 12068 @ 10 mm (0.4")/min.	0.18 N/mm <sup>2</sup>	0.07 N/mm <sup>2</sup>
<b>Sleeve</b>			
Peel to steel	EN 12068 @ 10 mm (0.4")/min.	0.3 N/mm	1.9 N/mm
Cathodic disbondment	EN 12068, 30 days	10 mm radius	4 mm radius
Impact resistance	EN 12068	> 8 Nm	> 15 Nm
Penetration resistance	EN 12068 Class B30 (1 N/mm <sup>2</sup> ) Class C30 (10 N/mm <sup>2</sup> )	> 0,6 mm*	> 0,6 mm*

\* Remaining coating thickness

## Ordering information

### CPSM type products are available:

- as ready-to-size tubular sleeves

### Example: CPSM-90/36-1500/87 • CPSM-C30-90/36-1000

		Standard ordering options	
		CPSM/87	CPSM-C30
C30	Performance classification		C30
90/36	Recovery ratio in mm	25/8 (1/0.32")	N/A
	(supplied diameter/ recovered diameter)	35/12 (1.38/0.47") 50/16 (2/0.63") 70/26 (2.76/1.02") 90/36 (3.54/1.42") 120/54 (4.72/2.13") 164/80 (6.46/3.15") 195/102 (7.67/4.02")	N/A N/A 70/26 (2.76/1.02") 90/36 (3.54/1.42") 120/54 (4.72/2.13") 164/80 (6.46/3.15") 195/102 (7.67/4.02")
1500	Sleeve width in mm **	350 mm (14)***	350 mm (14")
1000		500 mm (19.75")	500 mm (19.75")
500		1000 mm (39.5") 1500 mm (59")	1000 mm (39.5")

\* Min order quantity of 800 M equivalent per diameter size

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

\*\*\* Only for sizes <= 50/16

For proper product installation, see latest installation instruction.

Berry Plastics warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the technical data sheet when used in compliance with Berry Plastics written instructions. Since many installation factors are beyond the control of Berry Plastics, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Berry Plastics liability is stated in the standard terms and conditions of sale. Berry Plastics makes no other warranty either expressed or implied. All information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.



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