

COVALENCE[®] CPSM-C30

Product Information

Product description: CPSM, is a thick wall, heat-shrinkable tubular sleeve with high shrink ratio allowing irregular shapes to be coated easily. It is 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 and as protection of anchor tie rods.

Construction: Two-layer system

- **First layer:** Visco-elastic mastic sealant.
- **Second layer:** Thick wall, radiation-cross-linked, high density polyethylene.

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.

Features:

- No primer required.
- Low preheat sensitivity & proven high functionality.
- Highly resistant.
- Copes with difficult shapes and high transitions (high shrink ratio)
- Self-healing effect.
- No special equipment or skills required.

Benefits:

- No drying time and easy application.
- Trustful as CPSM resists bending, impact, abrasion, penetration, corrosive gases or fluids, disbonding and long-term storage. Remains user-friendly (even at low temperatures).
- Ensures a strong bond & impervious seal.
- Minimizes inventory, thus economical.
- Makes installation fast and easy. Keeps installation costs low.

Product selection

Max operating temperature	65°C (149°F)
Compatible line coatings	PE, PP, FBE, Tape, Coal tar, Asphalt
Min. preheat temperature	60°C (140°F)
Recommended pipe preparation	Clean, dry and free of grease
Soil stress restrictions	None
Performance	EN12068 class C30

Product thickness

Backing as supplied	0.70 – 1.20 mm*
Backing fully free recovered	2.0- 3.20 mm*
Adhesive as supplied	0.70 mm

* Backing thickness depends on tubing diameter

Product properties

Backing

Property	Test method	Typical value
Tensile strength at break	EN 60684-2	13 MPa min.
Elongation at break	EN 60684-2	350 % min.
Dielectric strength	EN 60684-2	10 kV/mm min.
Hardness, Shore D	ISO 868	50

Adhesive

Property	Test method	Typical value
Softening Point	ASTM E-28	134°C (273°F)
Shear strength	EN 12068 @10mm:min	0.1 N/mm ²

Installed sleeve

Property	Test method	Typical value
Peel to Steel	EN 12068 @10 mm /min	1.1 N/mm
Cathodic disbondment	EN 12068 30 days	4 mm radius
Impact resistance	EN 12068	> 15 J
Indentation resistance	EN 12068 Class C30 (10N/mm ²)	> 0.6 mm*

* Remaining coating thickness

Note: The typical values in this data sheet are based on lab prepared samples. Values shown are not to be interpreted as product specifications.

General order information

Covalence[®] CPSM type products are available
– As ready-to-size tubular sleeves

Example CPSM-C30-75/22-1000

	Designation	Standard ordering options
C30	Performance classification	C30
75/22	Recovery ratio (in mm) (supplied diameter/ recovered diameter)	30/8 50/16 75/22 95/29 140/42 180/60 245/80
1000	Tubing length (in mm)*	330 mm** 500 mm** 1000 mm

* Take a 15% shrinkage during installation of sleeve width into account when calculating the minimum sleeve width.

** Only made to order. Minimum order quantities apply.

Handling and Storage

Handling	Handle with care. Keep boxes upright.
Storage	Store indoor, clean and dry, away from direct sunlight in a cool place below +50°C. Unlimited shelf life.

Information

Documentation	Extensive information is available on our website. Application instructions and other documentation can be obtained by contacting our head office, from our local distributor or by sending an email to info@sealforlife.com
Certified staff	Application of the described coating system should be carried out by certified personnel.