

## 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

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

### Product thickness

<b>Backing as supplied</b>	0.70 – 1.20 mm*
<b>Backing fully free recovered</b>	2.0- 3.20 mm*
<b>Adhesive as supplied</b>	0.70 mm

\* Backing thickness depends on tubing diameter

### Product properties

#### Backing

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

#### Adhesive

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

#### Installed sleeve

Property	Test method	Typical value
<b>Peel to Steel</b>	EN 12068 @10 mm /min	1.1 N/mm
<b>Cathodic disbondment</b>	EN 12068 30 days	4 mm radius
<b>Impact resistance</b>	EN 12068	> 15 J
<b>Indentation resistance</b>	EN 12068 Class C30 (10N/mm <sup>2</sup> )	> 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
<b>C30</b>	Performance classification	C30
<b>75/22</b>	Recovery ratio (in mm) (supplied diameter/ recovered diameter)	50/16 75/22 95/29 140/42 180/60 245/80
<b>1000</b>	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

<b>Handling</b>	Handle with care. Keep boxes upright.
<b>Storage</b>	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](mailto:info@sealforlife.com)

**Certified staff** Application of the described coating system should be carried out by certified personnel.