

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.

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	ISO 37	14 MPa min.
Elongation at break	ISO 37	350 % min.
Hardness, Shore D	ISO 868	55

Adhesive

Property	Test method	Typical value
Softening Point	ASTM E-28	134°C (273°F)
Shear strength	EN 12068 @10mm:min	0.07 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)	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.

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.



Seal For Life Industries LLC
Franklin, MA, USA
Tel: +1 508 918 1600
Toll Free: +1 800 248 7659
Fax: +1 508 918 1905
franklin@sealforlife.com

Seal For Life Industries Mexico
S de R.L. de C.V.
Tijuana, Mexico
Tel USA: +1 858 633 9797
Fax USA: +1 858 633 9740
Tel Mx: +52 664 647 4397
Fax Mx: +52 664 607 9105
mexico@sealforlife.com

Seal For Life Industries
Stopaq B.V.
Stadskanaal, the Netherlands
Tel: +31 599 696 170
Fax: +31 599 696 177
info@sealforlife.com

Seal For Life Industries BVBA
Westerlo, Belgium
Tel: +32 14 722 500
Fax: +32 14 722 570
belgium@sealforlife.com

Seal For Life India Private Ltd.
Baroda, India
Tel: +91 2667 264 721
Fax: +91 2667 264 724
india@sealforlife.com

Anodefex® - Stopaq® - Polyken® - Covalence® - Powercrete® - Sealtaq® - Blockr® - Easy.Qote®

DISCLAIMER: Seal For Life Industries warrants that the product(s) represented within conform(s) to its/their chemical and physical description and is appropriate for the use as stated on the respective technical data sheet when used in compliance with Seal For Life Industries written instructions. Since many installation factors are beyond the control of Seal For Life Industries, the user is obligated to determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Seal For Life Industries liability is stated in the standard terms and conditions of sale. Seal For Life Industries makes no other warranty either expressed or implied. All information contained in the respective technical data sheet(s) should be used as a guide and is subject to change without notice. This document supersedes all previous revisions. Please see revision date on the left. Covalence® is a registered trademark of Seal For Life Industries.