

# COVALENCE® TPSM-C30

# **Product Information**

Product description: Covalence® TPSM is a heat-shrinkable, tubular sleeve which prevents corrosion of welded pipe joints in distribution lines. This mechanically strong and flexible sleeve is compatible with most standard pipeline coatings and outer jackets.

Construction: Two-layer system

- First layer: Visco-elastic mastic sealant.
- Second layer. Radiation-cross-linked, high density polyethylene.

The installation is carried out directly on the cleaned and dried (preheated) 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.

### Features:

- Dimpled backing provides a "Permanent Change Indicator" (PCI) for application of heat.
- No primer required.
- No special equipment or skills required.
- Low preheat sensitivity.
- Mechanically strong & resists abrasion, impact and penetration.
- Sealing adhesive automatically flows and repairs minor mechanical damages.

# **Benefits:**

- Ensures correct application of heat & allows easy post-heat inspection. Reliable inspectability at any time.
- Makes installation fast and easy. Keeps installation costs low.
- Allows easy application combined with high functional performance.
- Reliable and tough. Remains user-friendly (even at low

#### temperatures). "Self-healing effect"

# 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	Clean, dry and free of grease
preparation	
Soil stress restrictions	None
Performance	EN12068 class C30

Product properties		
Backing		
Property	Test method	Typical value
Tensile strength at break	EN 12068	24 MPa
Elongation at break	EN 12068	600%
Hardness, Shore D	ASTM D2240	58
Adhesive		
Property	Test method	Typical value
Softening Point	ASTM E28	134°C (273°F)
Lap shear	EN 12068	0.07 N/mm <sup>2</sup>
		0.01 N/mm <sup>2</sup> at 65°C (149°F)
Installed sleeve		(1491)
Property	Test method	Typical value
Peel strength	EN 12068	1.1 N/mm
Ŭ	@ 10 mm /min	
Cathodic	En 12068, 30 days	4 mm radius
disbondment		
Impact resistance	EN 12068	> 15 J
Indention	EN 12068 Class C	> 0.6 mm*
resistance	(10 N/mm <sup>2</sup> )	

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® TPSM-C30 products are available

As ready-to-size tubular sleeves

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

#### TPSM-C30-450-DN100 Example

		Designation	Standard ordering options
	DN100	Outside pipe diameter	DN80 (3.500")
		(DN)	DN100 (4.500")
			DN150 (6.625")
			DN200 (8.625")
halt			Other sizes available on request,
			consult your Covalence
			representative.
	450	Sleeve width	450 mm (17.75") (DN50-
			DN200), 600 mm (23.50")
			(DN100-DN200)
			* nominal width

Product thickness		For pipe sizes exceeding DN200, the use of wraparound WPC sleeves is
Backing as supplied	0.9 mm	recommended.
Backing fully free recovered	1.4 mm	Handling and Storage
Adhesive as supplied	0.9 mm	Handling Handle with care. Keep boxes upright.

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 web- site. Application instructions and other documentation can be obtained by contacting our head office, from our local distributor or by sending an email to <b>info@sealforlife.com</b>
Certified staff	Application of the described coating system should be carried out by certified personnel.



tries - Stopaq B.V.	Seal For Life Industries BV	Seal For Life Industries US LLC	Seal For Life Industries Mexico	Seal For Life India Private Ltd.
ne Netherlands	Westerlo, Belgium	San Diego, USA	S de R.L. de C.V.	Baroda, India
99 696 170	Tel: +32 14 722 500	Tel. +1 858 633 9785	Tijuana, Mexico	Tel: +91 2667 264 721
			LIC Tol. 1 050 633 0705	

Stadskanaal, the

Tel: +31 599

S de R.L. de C.V. San Diego, USA Tel. +1 858 633 9785

Tijuana, Mexico US Tel: +1 858 633 9785 MX Tel: +52 664 647 4300

Further information is available on our website www.sealforlife.com, or by sending an inquiry to info@sealforlife.com

DISCLAIMER: Seal For Life Industries 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 Seal For Life Industries' written instructions. Because many installation factors are beyond the control of Seal For Life Industries, the user shall determine the suitability of the products for the intended uses and assume all risks and liabilities in connection herewith. Seal For Life's liability is stated in its General Terms and Conditions of Sale. Seal For Life Industries makes no other warranty either express or implied. All information contained in this document 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.