

COVALENCE® EasySeal WPSM-PE

Product Information

Wrap-around sleeve with wide installation window for sealing of pipe joints in pre-insulated pipe system.

Product description: EasySeal WPSM-PE is a heat-shrinkable, wrap-around sleeve for joint sealing of heat-shrinkable and oversized casings in standard conditions. Generally, EasySeal WPSM-PE is used as an additional outside seal against moisture ingress at casing ends.

Construction:

- **Adhesive:** High strength, visco-elastic sealant with low preheat for easy application.
- **Backing:** Radiation cross-linked, high density polyethylene with PCI (Permanent Change Indicator). Upon proper heating the dimples disappear permanently. Any time after, it is possible to inspect whether the sleeve during installation has been well heated and fully shrunk leaving any cold spots over its entire surface

During shrinking, the adhesive easily melts and flows, filling in the transition between the pipe jacket and the heat-shrinkable casing. The adhesive ensures a firm bond between the sleeve and the pipe/casing surface.

Features:

- High shrink force HDPE backing.
- Permanent high hoop stress of cross-linked HDPE backing.
- High mechanical resistance HDPE backing.
- No special installation equipment required.
- Low preheat sensitivity.
- Permanent Change Indicator.

Benefits:

- Creates a tight, high performance bond and a strong seal. Secures anchoring of casing and pipe jacket.
- Easily survives temperature cycling, moderate soil stresses, pipe movements & chemical attack. Extremely resistant!
- Easy installation: just 'wrap around & shrink'.
- Ensures correct application heat and allows easy post-heat inspection. Reliable inspectability at any time.
- Effective long term sealing.

Product selection guide

Max operating temperature	50°C (60°C under expansion cushion)
Compatible joint system	Heat-shrinkable casing
Recommended preheat temperature	60°C
Recommended pipe preparation	Cleaning & Abrading
Soil stress resistance	Moderate
Pressure testing after installation	Optional
Product recommended for	Service lines
Performance	EN 489:2009

Product properties

Backing		
Property	Test method	Typical value
Tensile strength at break	ASTM D-638	22.8 MPa
Elongation at break	ASTM D-638	600%
Hardness, Shore D	ASTM D-2240	57
Shrink force	ASTM D-638, 150°C	0.276 MPa
Thermal ageing followed by elongation	ASTM D-3045, 150°C, 21 days ASTM D-638, 23°C	> 450%
Moisture absorption	ASTM D-570	0.04%
Adhesive		
Property	Test method	Typical value
Softening Point	ASTM E-28	135°C
Lap shear	EN 12068	0.09 N/mm ²
Installed sleeve		
Property	Test method	Typical value
Peel to PE	EN 12068, 10mm/min DIN 30672, 100 mm/min	1.1 N/mm 40 N/cm
Soil stress resistance	EN 489:2009 * Max 0.5% sand humidity 100 cycles	Pass
External pressure test after soil stress	EN 489:2009 23°C, 30 KPa, 24 hrs	Pass

* as part of joint casing system

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

Product thickness	155/A	230/B
Backing as supplied	0.75 mm	0.75 mm
Mastic sealant as supplied	1.00 mm	1.20 mm

Product order information

- EasySeal WPSM-PE type products are available
- As Uni-sleeve (pre-cut with pre-attached closure patch)
 - As a roll (closure patches to be ordered separately)

Uni-sleeve

Example	WPSM-PE-155-DIA140/A(S2-C60)	
	Designation	Standard ordering options
155	Sleeve width	155 mm (/A) , 230 mm (/B)
DIA140	Casing pipe diameter (mm)	Ø 90 - Ø 560
/A	Sleeve construction	/A for 155mm /B for 230 mm
S2-C60	Packaging quantity	S2: 2 pc per plastic bag – C60: 60 pc or 2x30 pairs per case

Roll form (closure patch to be ordered separately)

Example	WPSM-PE-155X40M/A-RL(C2)	
	Designation	Standard ordering options
155	Sleeve width	155 mm (/A) , 230 mm (/B), 300 mm (/B)*
40	Roll length	40 m (/A), 30 m (/B)
/A	Roll construction	/A for 155 mm /B for 230 mm & 300 mm*
C2	Packaging quantity	2 rolls per case

* Made to order only

Rolls can have a splice. Min partial length is 5 M.

Closure patches (to be ordered separately)

Example	WPCP-IV-100X153 (S50)	
	Designation	Standard ordering options
100	Patch width (mm)	100, 150
153	Patch length (mm)	153, 228, 300
S50	Packaging quantity	50 pc per bag

Application table

Sleeve cut length

Jacket pipe Ø

≤ 200: circumference of casing* + 75 mm
 225-500: circumference of casing* + 100 mm
 ≥ 560: circumference of casing* + 150 mm

Patch width

≤ Ø450: 100 mm x SW**
 ≥ Ø500: 150 mm x SW**



*: circumference of the casing ends after shrinking of the casing
 **: SW = Sleeve Width

Sleeve width depending on jacket pipe diameter

In combination with SHRINKABLE CASING

Sleeve Width:	Jacket Pipe Ø:															
	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560
155	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	White	White	White	White	White
230	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Red	Red	Red	Red	Red	Red	Red
	Red	Recommended application														
	Yellow	Possible application														
	Dimensions in mm															

General information	
Installation guide	For proper product installation, see latest installation instruction.
Handling	Handle with care. Keep boxes upright.
Storage	To ensure maximum performance, store Covalence products in a dry, ventilated area. Keep products sealed in original boxes and avoid exposure to direct sunlight, rain, snow, dust or other adverse environmental elements. Avoid prolonged storage temperatures above 40°C or below -10°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.



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 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. Seal For Life Industries is a registered marks of the Berry Global Group, Inc. or its affiliates.

Local distributor / representative

For contact details of local distributor / representative
 Please visit www.sealforlife.com

www.sealforlife.com

Seal For Life Industries LLC Franklin, MA, USA Tel: +1 508 918 1600 US Toll Free: +1 800 248 7659 Fax: +1 812 250 0834 franklin@sealforlife.com	Seal For Life Industries Mexico S de R.L. de C.V. Tijuana, Mexico Tel USA +1 858 633 9797 Fax US: +1 858 633 9740 Tel Mexico: +52 664 647 4397 Fax Mexico: +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
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