

COVALENCE[®] EasySeal TPSPM-PE

Product Information

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

Product description: EasySeal TPSPM-PE is a heat-shrinkable, tubular sleeve for joint sealing of heat-shrinkable and oversized casings in standard conditions. Generally, EasySeal TPSPM-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 oversized casing. The adhesive ensures a firm bond between the sleeve and the pipe/casing surface. The dimpled backing permanently indicates that the sleeve is completely shrunk.

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.
- Individual packaging precludes contamination prior to application.
- Permanent Change Indicator.
- Over 25 years in service sealing.

Benefits:

- Creates tight, high performance bond and a strong seal. Secures anchoring of casing and pipe jacket.
- Easily survives temperature cycling, soil stresses, pipe movements & chemical attack. Extremely resistant!
- Easy installation: just 'slide over & shrink'.
- Stays clean and uncomplicated. Less work.
- 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	> 100 cycles acc. EN 489*

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 ASTM D-638, 23°C	21 days > 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 – 100 cycles*	Pass
External pressure test after soil stress	EN 489 23°C, 30 kPa, 24 hrs	Pass

* 8% sand humidity

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

Backing as supplied	0.65 mm
Backing fully free recovered	1.00 mm
Mastic sealant as supplied	0.88 mm

Product order information

EasySeal TPSPM-PE type products are available
 – As ready-to-size tubular sleeve

Example	TPSPM-210/135-150PE160/180(C60)	
	Designation	Standard ordering options
210/135	Recovery ratio (mm)	See application table on next page
150	Sleeve width (mm)	150, 225, (450)**
PE160/180	Outside diameter(s) of insulated pipe(s)	See application table on next page
C60	Packaging quantity	C60: 60 pc per case

** no inside-out packaging, only adhesive liner, made to order only



Application Table

Max. Casing diameter before shrinkage (mm)	Insulated pipe outside diameter (mm)	TPSM-PE Product Size	Product width XXX (mm)	Min. Supplied diameter TPSM-PE (mm)	Max. Recovered diameter TPSM-PE (mm)
80	65	TPSM-85/60-XXXPE65 (C150)	150	85	60
90	65 – 75	TPSM-95/65-XXXPE65/75(C125)	150	95	65
105	90	TPSM-115/80-XXXPE90(C90)	150 or 225	115	80
125	90 – 110	TPSM-130/90-XXXPE90/110(C90)	150 or 225	130	90
145	110 – 125	TPSM-155/100-XXXPE110/125(C90)	150 or 225	155	100
160	125 – 140	TPSM-170/110-XXXPE125/140(C90)	150 or 225	170	110
180	140 – 160	TPSM-190/125-XXXPE140/160(C90)	150 or 225	190	125
200	160 – 180	TPSM-210/135-XXXPE160/180(C60)	150 or 225	210	135
220	180 – 200	TPSM-225/145-XXXPE180/200(C60)	150 or 225	225	145
245	200 – 225	TPSM-260/165-XXXPE200/225(C60)	150 or 225	260	165
265	225 – 250	TPSM-290/185-XXXPE225/250(C40)	150 or 225	290	185
300	250 – 280	TPSM-330/210-XXXPE250/280(C44)	150 or 225	330	210
335	280 -315	TPSM-370/235-XXXPE280/315(C44)	150 or 225	370	235
370	315 -355	TPSM-395/250-XXXPE315/355(C30)	150 or 225	395	250
420	355 – 400	TPSM-450/285-XXXPE355/400(C30)	225	450	285
470	400 – 450	TPSM-505/315-XXXPE400/450(C20)	225	505	315
525	450 – 500	TPSM-555/350-XXXPE450/500(C20)	225	555	350
585	600 – 560	TPSM-625/385-XXXPE500/560(C14)	225	625	385
650	560 -630 -710	TPSM-775/480-XXXPE560/710(C10)	225	775	480
735	560 -630 -710	TPSM-775/480-XXXPE560/710(C10)	225	775	480
825	710 – 800	TPSM-865/525-XXXPE710/800(C10)	225	865	525

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 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 info@sealforlife.com
Certified staff	Application of the described coating system should be carried out by certified personnel.



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