

# COVALENCE<sup>®</sup> MEPS, MPSM

## Product Information

**Product description:** The wrap-around MEPS and the tubular MPSM are heat-shrinkable socket joint corrosion protection coatings. MEPS/MPSM are typically used on steel or ductile iron pipes coated with PE, concrete or other coatings, i.e. paint and zinc. MEPS/MPSM are also used to coat reducers, bends and dielectrical joints. For specially designed bell & spigot type joints, please refer to our special range of products (TISK, TISW-F, TISKW-F).

**Construction:** Two-layer system

- **First layer:** Visco-elastic adhesive sealant.
- **Second layer:** Thick-walled, radiation cross-linked, high density polyethylene.

The installation is carried out directly on the cleaned and prepared pipe surface without any primer being required. Heating with a regular gas torch lets the high shrink-ratio backing reduce in size to form a tight and clean fit around the socket joint. While shrinking, the sealant, with its superior flow and fill characteristics, spreads evenly over the complete pipe surface and into all cavities.

### Features:

- Backing with enhanced shrink ratio.
- High impact strength & high penetration resistance.
- Fully retains the deflection and longitudinal movement of the socket joint.
- Seal resists vibration, deflection and axial movement.
- No special filler needed.
- No primer needed.
- No special equipment needed.
- Low preheat requirements.

### Benefits:

- Conforms easily to socket joint shapes.
- Virtually no risk of damage during operation.
- No break of the sealing ring.
- Reliable, high-performance seal stops water ingress.
- Simple 1 part installation.
- Keeps installation costs low.
- Fast installation – saves time.

## Product selection guide

	MEPS & MPSM
<b>Max. operating temperature</b>	30°C (86°F)
<b>Compatible line coatings</b>	PE, PP, Fibre-Cement Zinc, Bitumen Paint, Cold tape.
<b>Min. preheat temperature</b>	50°C (122°F)
<b>Recommended pipe preparation</b>	ST3
<b>Soil stress restrictions</b>	None
<b>Performance</b>	EN12068 C30 DIN30672 C30 for socket joints

## Product properties

### Backing

Property	Test method	Typical value	
		MEPS	MPSM
<b>Tensile strength at break</b>	ASTM D-638	22.8 MPa (3300 psi)	
<b>Elongation at break</b>	ASTM D-638	600%	
<b>Hardness, Shore D</b>	ASTM D-2240	55	
<b>Shrink force</b>	ASTM D-638, 150° C (302°F)	40 psi	
<b>Dielectric strength</b>	ASTM D-149	900 V/mil (35 kV/mm)	
<b>Moisture absorption</b>	ASTM D-570	0.05%	

### Adhesive

Property	Test method	Typical value	
		MEPS	MPSM
<b>Softening point</b>	ASTM E-28	92°C (198°F)	134°C (273°F)
<b>Lap shear</b>	EN 12068 @ 10 mm/min	8 N/cm <sup>2</sup>	7 N/cm <sup>2</sup>

### Installed sleeve

Property	Test method	Typical value	
		MEPS	MPSM
<b>Peel to steel</b>	EN 12068 @ 10 mm/mm	0.9 N/mm	1.5 N/mm
<b>Impact resistance</b>	EN 12068, Class C	> 15 J	> 15 J
<b>Indentation resistance</b>	EN 12068, Class C30	> 0.6 mm*	> 0.6 mm*
<b>Resistance to joint deflection and displacement</b>	DIN 30672	Pass	Pass
<b>Cathodic disbondment</b>	EN 12068 30 days	9 mm radius	4 mm radius

\* 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.

## Product thickness

	MEPS	MPSM ≤ DN100	MPSM DN150-DN300	MPSM > DN300
	<b>Backing as supplied</b>	0.9 mm (0.035 in)	0.7 mm (0.027 in)	0.8 mm (0.031 in)
<b>Backing fully free recovered</b>	1.4 mm (0.055 in)	2.4 mm (0.095 in)	1.4 mm (0.055 in)	1.4 mm (0.055 in)
<b>Adhesive as supplied</b>	1.5 mm (0.059 in)	0.7 mm (0.027 in)	0.9 mm (0.035 in)	0.9 mm (0.035 in)

General order information			General order information (continued)		
Covalence® MEPS products are available <ul style="list-style-type: none"> <li>– As Uni-sleeve (pre-cut with attached closure patch)</li> <li>– As a roll (closure patches to be ordered separately)</li> </ul> MPSM type products are available <ul style="list-style-type: none"> <li>– As ready-to-size tubular sleeves</li> </ul>			<b>Product dimension</b> Sleeve cut lengths and appropriate closure patch widths depend on pipe size and product construction, see application table AT-MEPS/MPSM.		
			<b>Installation guide</b> For proper product installation, see latest installation instruction.		
			<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.		
MEPS (wrap-around) cut piece / Uni-sleeve			Information		
<b>Example</b>	<b>MEPS-C30-(UNIV)-DN150-300</b>		<b>Documentation</b>	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 <a href="mailto:info@sealforlife.com">info@sealforlife.com</a>	
	<b>Designation</b>	<b>Standard ordering options</b>			
<b>C30</b>	Performance class	C30			
<b>UNIV</b>	Universal socket joint (special cut length)	DN150-1000 (6.625-40")			
<b>DN150</b>	Nominal pipe diameter	DN150-1000 (6.625-40") (>DN1000 (40") on request only)			
<b>UNIV</b>	Designates pre-attached closure patch		<b>Certified staff</b>	Application of the described coating system should be carried out by certified personnel.	
MEPS roll form (closure patch to be ordered separately)					
<b>Example</b>	<b>MEPS-C30-12X100-RL</b>				
	<b>Designation</b>	<b>Standard ordering options</b>			
<b>C30</b>	Performance class	C30			
<b>12</b>	Roll width (in)	12, 17, 24 (300, 450, 600 mm*)			
<b>100</b>	Roll length	100 ft (30 m)			
<b>RL</b>	Unit of measure	Roll			
		* nominal width			
MEPS closure patches (to be ordered separately)					
<b>Example</b>	<b>WPCP-IV-6x12</b>				
	<b>Designation</b>	<b>Standard ordering options</b>			
<b>6</b>	Patch width (in)	6, 8 (150, 200 mm)			
<b>12</b>	Patch length (in)	12, 17, 24 (300, 450, 600 mm*)			
		* nominal width			
MPSM (tubular)					
<b>Example</b>	<b>MPSM C30-UNIV-300-DN100</b>				
	<b>Designation</b>	<b>Standard ordering options</b>			
<b>C30</b>	Performance classification	C30			
<b>300</b>	Sleeve width	300 mm*(12")			
<b>DN100</b>	Nominal pipe diameter	DN80-700 (3.50"-30")			
		* nominal width			



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