

COVALENCE® MPSM, MEPS-C30-E, HEPS-C30-E

Product Information

Product description: The wrap-around HEPS & MEPS and the tubular MPSM are heat-shrinkable socket joint corrosion protection coatings. HEPS/MEPS/MPSM are typically used on steel or ductile iron pipes coated with PE, concrete or other coatings, i.e. paint and zinc. HEPS/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 butyl based adhesive.
- 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	
Max.operating temperature	65°C (149°F)
Compatible line coatings	PE, PP, Fibre-Cement Zinc,
	Bitumen Paint, Cold tape.
Min. preheat temperature	60°C (140°F)
Recommended pipe preparation	ST3
Soil stress restrictions	None
Performance	EN12068 C30
	DIN30672 C30 for socket joints
	AWWA C216
	ISO21809-3 Type 14A2

Product prop	erties			
Backing				
Property	Test method	Typical va MPSM**		ical value SM/MEPS/HEPS
Tensile	ASTM D-638			22.8 MPa
strength at	= 11.0000.10			
break	EN 60684-2	≥13 MF	'a	
Elongation at break	ASTM D-638	600%		
Hardness,	EN 60684-2 ASTM D-	≥ 350 ° 50	%	57
Shore D	2240/ISO 868	50 57		51
Shrink force	ASTM D- 638, 150° C (302°F)			40 psi
Dielectric	ASTM D-149			35 kV/mm
strength	EN 60684-2	≥ 10 kV/ı		
Moisture absorption	ASTM D-570	0.04% 0.04%		0.04%
Adhesive				
Property	Test	T	ypical value	9
	method			
Softening point	ASTM E-28	134°C (273°F)		
Lap shear	EN 12068	> 0.1 N/mm ²		
	@ 10 mm/min ASTM D1002		50 m	_:
Installed slee	@ 50 mm/min		50 p	51
Property Property	Test	T	vnical value	
rroperty	method	Typical value		
		MPSM	MEPS	HEPS
Peel to steel	EN 12068 @ 10 mm/min	1.1 N/mm	1.1 N/mm	1.1 N/mm
Impact	EN 12068,	> 15 J	> 15 J	> 15 J
resistance	Class C			
Indentation resistance	EN 12068, Class C30	> 0.6 mm*	> 0.6 mm*	> 0.6 mm*
Resistance	DIN 30672	Pass	Pass	Pass
to joint deflection and displacement				
Cathodic	EN 12068	4 mm	9 mm	9 mm radius
disbondment	30 days	radius	radius	
Longitudinal shrinkage	(Supplied length- Fully recovered length) / Supplied	Min 45% (< DN300) Min 36% (>	Min 36%	Min 45%
	length	DN300)		
Remaining coatin		,		

^{*} 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					
	HEPS C30-E	MEPS C30-E	MPSM** ≤ DN100	MPSM DN150- DN300	MPSM > DN300
Backing as supplied	0.7 mm (0.028 in)	0.9 mm (0.035 in)	0.7 mm (0.028 in)	0.7 mm (0.028 in)	0.9 mm (0.035 in)
Backing fully free recovered	1.4 mm (0.055 in)	1.4 mm (0.055 in)	2.4 mm (0.095 in)	1.4 mm (0.055 in)	1.4 mm (0.055 in)
Adhesive as supplied	1.5 mm (0.059 in)	1.5 mm (0.059 in)	0.7 mm (0.027 in)	0.9 mm (0.035 in)	0.9 mm (0.035 in)
Shrinkage	45%	36%	65%	45%	36%

^{**} Tubular extruded backing

Ordering information

Covalence® HEPS products are available

As a roll (closure patches to be ordered separately)

Covalence® MEPS products are available

- As a roll (closure patches to be ordered separately)
- As Uni-sleeve (pre-cut with attached closure patch)

MPSM type products are available

As ready-to-size tubular sleeves

Rolls can have a splice. Max 10% of the roll order will have a splice. Min partial length will be 5M or 15 ft.

MPSM (tub	ular)		
Example MPSM C30-UNIV-300-DN150			
	Designation	Standard ordering options	
C30	Performance	C30	
	classification		
300	Sleeve width	300 mm*(12")	
		* nominal width	
DN150	Nominal pipe diameter	DN80-700 (3.50"-30")	
MEPS (wra	p-around) Uni-sleeve		
Example	Example MEPS-C30-E-(UNIV)-DN150-300		
	Designation	Standard ordering options	
C30	Performance class	C30	
(UNIV)	Universal socket joint (special cut length)		
DN150	Nominal pipe diameter	DN150-1000 (6.625-40")	
		(>DN1000 (40") on request	
		only)	
300	Sleeve width	300 mm*(12")	
		* nominal width	
	orm (closure patch to be		
Example	MEPS-C30-E-12X100-R		
	Designation	Standard ordering options	
C30-E	Performance class	C30	
12	Roll width (in)	12, 17, 24 (300, 450, 600 mm*)	
		* nominal width	
100	Roll length	100 ft (30 m)	
RL	Unit of measure	Roll	
	orm (closure patch to be	ordered separately)	
Example	HEPS-C30-E-17X100-R		
	Designation	Standard ordering options	
C30-E	Performance class	C30-E	
17	Roll width (in)	17, 24 (450, 600 mm*)	
400	D 111 41	* nominal width	
100	Roll length	100 ft (30 m)	
RL	Unit of measure	Roll	
	EPS closure patches (to b	e ordered separately)	
Example	WPCP-IV-6x12	0	
	Designation	Standard ordering options	
6	Patch width (in)	6, 8 (150, 200 mm)	
12	Patch length (in)	12, 17, 24 (300, 450, 600 mm*)	
		* nominal width	

General information	
Product dimension	Sleeve cut lengths and appropriate closure patch widths depend on pipe size and product construction, see application table AT-MEPS/MPSM.
Installation guide	For proper product installation, see latest installation instruction.
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 shall be carried out by certified personnel.



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