



MEPS, MPSM

Socket joint sleeve

The corrosion protection sleeve for socket joints in steel and ductile cast iron networks.



Market	Application	Temperature Range	Performance
Pipelines Rehabilitation Pre-Insulated Pipelines Water Distribution, Infrastructure and Transmission	Bends, Elbow, Fittings and T's Field applied (OTD) Girth Weld Water Pipe OD	up to 30°C (86°F)	EN 12068 C30

System Description

Construction: Two-layer system

First layer:

Visco-elastic adhesive sealant.

Second layer:

Thick-walled, radiation cross-linked, high-density polyethylene.

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).

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.

Product Advantages

- **Backing with enhanced shrink ratio**
Conforms easily to socket joint shapes.
- **High impact strength & high penetration resistance**
Virtually no risk of damage during operation.
- **Fully retains the deflection and longitudinal movement of the socket joint**
No break of the sealing ring.
- **Seal resists vibration, deflection and axial movement**
Reliable, high-performance seal stops water ingress.
- **No special filler needed**
Simple 1 part installation.
- **No special equipment required**
Keeps installation costs low.
- **Low preheat requirements**
Fast installation---saves time.

Product Construction

	MEPS	MPSM
• Backing (as supplied)	0.90 mm (0.035 in.)	0.90 - 1.50 mm (0.035 - 0.059 in.)
• Backing (fully free recovered)	1.40 mm (0.055 in.)	1.40 - 2.30 mm (0.055 - 0.90 in.)
• Adhesive (as supplied)	1.50 mm (0.059 in.)	0.90 - 1.00 mm (0.035 - 0.99 in.)

Product Selection Guide

	MEPS	MPSM
Max operating temperature	30°C (86°F)	30°C (86°F)
Compatible line coatings	PE, Fibre-Cement Zinc, Bitumen paint	PE, Fibre-Cement Zinc, Bitumen paint
Min preheat temperature	50°C (122°F)	50°C (122°F)
Recommended pipe preparation	ST3	ST3
Soil Stress Resistance	None	None
Performance	EN 12068 C30	EN 12068 C30

Product Properties

Properties	Test Method	Typical Value MEPS	Typical Value MPSM
Backing			
Tensile Strength	ASTM D-638	3300 psi (22.8 MPa)	3300 psi (22.8 MPa)
Elongation	ASTM D-638	600%	600%
Hardness, Shore D	ASTM D-2240	55	55
Shrink Force	ASTM D-638, 150°C (302°F)	40 psi	40 psi
Dielectric strength	ASTM D-149	900 volts/mil (35 Kv/mm)	900 volts/mil (35 Kv/mm)
Moisture absorption	ASTM D-570	0.05%	0.05%
Adhesive			
Softening Point	ASTM E-28	92°C (198°F)	134°C (273°F)
Lap Shear	EN 12068 @ 10 mm (0.40")/min.	8 N/cm ²	7 N/cm ²
Sleeve			
Peel to Steel	EN 12068 @ 10 mm (0.40")/min	9 N/cm	19 N/cm
Impact resistance	EN12068, Class C	> 15 Nm	> 15 Nm
Penetration resistance	EN 12068, Class C30	> 0.6 mm*	> 0.6 mm*
Resistance to joint deflection and displacement	DIN 30672	Pass	Pass
Cathodic disbondment	EN 12068 30 days	9 mm radius	4 mm radius

*Remaining coating thickness

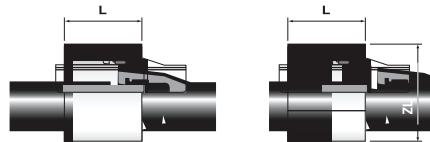
Ordering Information

MEPS type products are available:

- as uni-sleeve (pre-cut sleeve with pre-attached closure patch)
- as a roll (closure patch to be ordered separately)

MPSM type products are available:

- as ready-to-size tubular sleeves

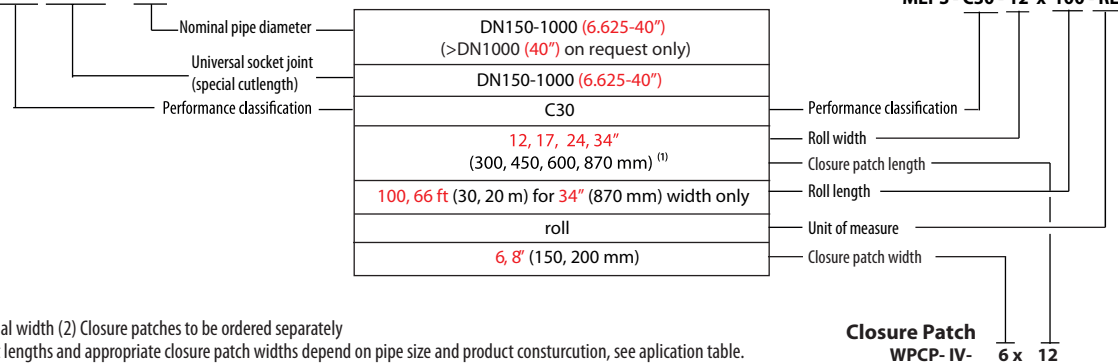


L = Sleeve width
ZL = Nominal pipe diameter

MEPS (wrap-around):

Cut piece / Unisleeve

MEPS - C30 - (UNIV)- DN150-300

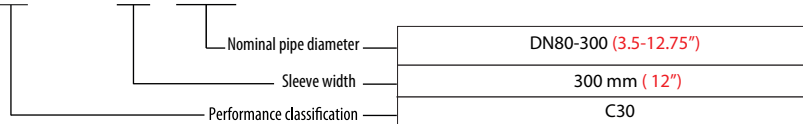


(1) Nominal width (2) Closure patches to be ordered separately

Sleeve cut lengths and appropriate closure patch widths depend on pipe size and product construction, see application table.

MPSM (tubular):

MPSM C30 - UNIV - 300 - DN100



For proper product selection, see latest application table AT-MEPS/MPSM. For proper product installation, see latest installation instruction.



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