



Corrosion protection sleeve for round anchor plates in District Heating pipeline segments.

Product description

APPM metal anchor coating.

Construction: Two-layer system:

First layer: Visco-elastic mastic sealant.

Second layer: Thick-walled, radiation-cross-linked, high density polyethylene.

APPM is a tubular, heat-shrinkable sleeve, which provides corrosion protection to metal pipe casings and the anchor plates welded to them. Owing to APPM's high shrink ratio, it conforms easily to large step-downs. APPM is available in a standardized range of diameters.

The installation is carried out directly on the cleaned and prepared pipe and anchor surface. No primer is required. APPM is slid over the pipe prior to welding. By heating the APPM with an appropriate gas torch the high shrink-ratio backing reduces in size to form a tight fit around the anchor plate and the casing pipe. While shrinking, the sealant, with its superior flow and fill characteristics, spreads uniformly over the entire surface covered by the APPM, thereby filling surface irregularities and preventing the penetration of moisture.

After installation, the anchor is completely encapsulated with concrete to prevent the insulated pipe system from moving against the soil.

Product features/benefits

- **No primer required**
No drying time and easy application.
- **Low preheat sensitivity & proven functionality**
Allows easy application combined with high functional performance. Saves time.
- **High mechanical resistance backing**
APPM resists abrasion, impact and penetration.
- **High shrink force backing**
Easy & clean installation even at the difficult step-down area.
- **Specially formulated sealant**
Ensures a strong bond & reliable protection. Provides high peel and shear values after installation.
- **Sealing adhesive automatically flows and repairs minor mechanical damages**
Self-healing effect. Saves time.
- **No special equipment or skills required**
Makes installation fast, easy and low cost.

Product selection guide

	APPM
Max. operating temperature	50°C
Compatible line coatings	PE, FBE, Tape, Coal tar and Asphalt
Min. preheat temperature	60°C
Recommended pipe preparation	ST3
Soil stress restrictions	Not applicable, encapsulated in concrete

Product thickness

	APPM
Backing (as supplied)	0.8 - 1.2 mm*
Backing (fully free recovered)	2.0 mm - 2.3 mm*
Adhesive (as supplied)	0.94 mm

* Backing thickness is function of the diameter.

Product properties: APPM

Property	Test method	Typical value
Backing		
Tensile strength	ASTM D-638	3300 psi (22.7 MPa)
Elongation	ASTM D-638	600%
Hardness, Shore D	ASTM D-2240	55
Shrink force	ASTM D-638	40 psi
	150°C	
Water absorption	ISO 62	0.05%

Property	Test method	Typical value (/138)	Typical value (/87)*
Adhesive			
Softening point	ASTM E-28	134°C	94°C
Shear strength	EN12068 @ 10 mm /min.	0.07 N/mm ²	0.18 N/mm ²
Sleeve			
Peel to Steel	EN12068 @ 10 mm /min.	1.9 N/mm	0.4 N/mm
Impact resistance	EN12068	> 15 Nm	>8 Nm
Penetration resistance	EN12068 class C	> 0.6 mm**	class B >0.6 mm**
Cathodic disbondment	EN12068, 30 days	4 mm radius	10 mm radius

** remaining coating thickness

Ordering information

APPM type products are available:

- as ready-to-size tubular sleeves

Example: APPM-275/150-600/138T

		Standard ordering options	
275/150	Recovery ratio in mm (supplied diameter / recovered diameter)	230/80* 260/135* 275/150 295/160 320/175 380/205 410/225 440/240 530/290 580/315 630/340 690/375 900/510	Max. Anchor Plate Ø mm 215 245 260 280 300 350 380 415 500 550 600 660 810
			Min. Jacket Ø mm 90/110/125/140 140 160 180 200 250 280 315 400 450 500 560 710
600	Nominal sleeve width in mm	600 mm	
/138T	Adhesive code	/138T /87 CD116 (for sizes *)	

Berry Plastics 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 Berry Plastics written instructions. Since many installation factors are beyond the control of Berry Plastics, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Berry Plastics liability is stated in the standard terms and conditions of sale. Berry Plastics makes no other warranty either expressed 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.



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