



Repair system for damaged mill-applied PP coating.

Product description

PERP-PP coating repair.

Construction: 2-layer or 3 layer system:

First (optional) layer: Liquid epoxy, solvent-free two-component.

Second layer: Copolymer adhesive.

Third layer: Radiation-cross-linked, polypropylene (unexpanded).

PERP-PP is a heat-applied patch which, in combination with PP adhesives filler, offers an economically effective and high quality repair system for factory PP pipe coatings damaged mechanically during transportation, storage and laying of pipes.

Sleeves are recommended for large damaged areas (see selection table below).

PP adhesives is used to fill the holiday, thus restoring the mill-applied coating thickness of the pipe.

Epoxy primer is additionally used when a 3-layer coating is required.

Installation is done with hot-air tools. To repair a damaged area, installers round out, roughen, clean and preheat the area and apply the epoxy and the PP adhesive to fill out the holiday. PERP-PP, cut to size, is positioned onto the treated area and heated. During heating, the adhesive softens and flows to form a tight bond with the substrate. The bond strength builds up during cool-down and is fully retained after job completion.

Product features/benefits

- **Adaptable repair system**
Highly economical.
Save money.
- **Resistant to high shear forces**
Long lasting and high performance.
- **Excellent adhesion to commercial, PP mill-applied coatings**
Provides a virtually monolithic coating repair of high quality.
- **Available roll form**
Saves time with fast and convenient installation.
Saves money by keeping inventory and logistics costs low.
- **No special equipment required**
Makes installation fast and easy.
Keeps installation costs low.

Product selection guide

	PERP-PP
Max operating temperature	120°C (248°F)
Compatible line coatings	PP
Min preheat temperature	80-100°C (176-212°F)
-PP line coating	
Recommended pipe preparation	SA 2 1/2 for Steel - Sanding disk for PP linecoating
Filler tape	PP-Meltstick or S1137 filler
Epoxy primer	S1401
Soil stress restrictions	None

Product thickness

	PERP-PP
Backing (as supplied)	0.030 in. (0.76 mm)
Backing (fully free recovered)	0.030 in. (0.76 mm)
Adhesive (as supplied)	0.030 in. (0.76 mm)

Product properties: PERP-PP

Property	Test method	PERP-PP Typical Value
Backing		
Tensile strength	ASTM D-638	4641 psi (32 MPa)
Elongation	ASTM D-638	610%
Hardness, Shore D	ASTM D-2240	56
Dielectric strength	ASTM D-149	28KV/mm
Water absorption	ASTM D-570	0.17% @ 95°C (203°F), 24 hrs
Elongation at break after heat ageing @ 150°C (302°F), 4 weeks	ASTM D-638	490%
Weathering followed by elongation at break	ASTM D-2565, P638	350%

PERP-PP		
Property	Test method	Typical Value
Adhesive		
Melting point	ASTM D-3418	154°C (309°F)
Shear strength	ASTM D-1002	29 N/cm ² @120°C (248°F)
	EN12068	560 N/cm ² @23°C (73°F) 27 N/cm ² @120°C (248°F)
Sleeve		
Peel to PP	DIN30672 (100 mm/min)	30 N/cm

Ordering information

PERP-PP type products are available:

- as a roll additional components such as filling adhesive and optional epoxy needs to be ordered separately

Example:

Standard Ordering options		
PERP-PP-425x10000	Rolls of 10 m (32.5 ft.) length, 450 mm (75") width	
PP-MELTSTICK-DIA12 (C50)	diameter 12mm (0.48"), 300 mm (11.9") long	Filling adhesive
S1137-50x3x3000	Mastic for PERP-PP	Note: 3 rolls of filler per roll of PERP-PP
S1401	Epoxy primer (optional), see datasheet S1401	
EQ-HOT-AIR-TOOL - 230V	application tool to be powered with 230V	

Application table

Max. damaged area for using PERP. (*)

Pipe diameter	Max. damage
< 10"	100 x 100 mm (4 x 4")
< 28	150 x 150 mm (6 x 6")
≥ 30"	300 x 300 mm (12 x 12")

(*) For larger damaged areas, the use of heat-shrinkable sleeves is recommended (refer to Berry Plastics girth weld sleeves).

For proper product installation, see latest installation instruction.

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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