

COVALENCE® PERP-PP

Product Information

Repair system for damaged mill-applied PP coating or peel strips of HTLP-PP sleeves.

Product description: Covalence® 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).
- Filler tape: 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.

Construction: Two-layer or three-layer system:

- First (optional) layer. Liquid epoxy, solvent-free two-component.
- · Second layer. Copolymer adhesive.
- Third layer. Radiation cross-linked, polypropylene (unexpanded).

Installation is done with standard gas torches. To repair a damaged area, installers round out, roughen, clean and preheat the area and apply the epoxy and the filler tape 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.

Features:

- · Adaptable repair system.
- · Resistant to high shear forces.
- Excellent adhesion to commercial, PP mill-applied coatings.
- · Available roll form.
- · No special equipment required.

Benefits:

- Long lasting and high performance.
- Provides a virtually monolithic coating repair of high quality.
- Saves time with fast and convenient installation. Keeps inventory, logistics and installations costs low.

Product selection guide	
Max operating temperature	120°C (248°F).
Compatible line coatings	PP, HTLP-PP
Min. preheat temperature -PP line coating	90-100°C (194-212°F)
Recommended pipe preparation	Sa 2½ for Steel – Sanding disk or abrasive paper for PP linecoating
Filler tape	S1137 filler
Epoxy primer	S1401
Soil stress restrictions	None

Application table

Max. damaged area for using PERP is 25 cm². For larger damaged areas, the use of heat-shrinkable sleeves is recommended (refer to Seal For Life girth weld sleeves)



Product properties		
Backing		
Property	Test method	Typical value
	ASTM D638	4641 psi
Tensile strength at	ASTIVI D036	32 MPa
break	10TH B 222	~= ···· *·
Elongation at break	ASTM D638	610%
Hardness, Shore D	ASTM D2240	56
Dielectric strength	ASTM D149	28 kV/mm
Water absorption	ASTM D570	0.17%
1	@ 95°C (203°F), 24 hr	
Elongation at break	ASTM D638 @ 150°C	490%
after heat ageing	(302°F), 4 weeks	
Weathering followed	ASTM D2565, P638	350%
by elongation at break		
Adhesive		
Property	Test method	Typical value
Melting point	ASTM D3418	154°C (309°F)
Shear strength	ISO 21809-3	
	@ 23°C (73°F)	5.3 N/mm ²
	@ 120°C (230°F)	0.35 N/mm ²
Installed sleeve		
Property	Test method	Typical value
Peel to PP	DIN 30672	30 N/cm
	(100 mm/min)	

Product thickness	
Backing as supplied	0.76 mm (0.030")
Backing fully free recovered	0.76 mm (0.030")
Adhesive as supplied	0.76 mm (0.030")

General order information

Covalence® PERP-PP type products are available:

anoral order information (continued)

 As a roll additional components such as filler adhesive and optional epoxy needs to be ordered separately

	Standard ordering options	
PERP-PP-425X1000	Rolls of 10 m (32.5 ft) length, 450 mm	
	(17.75") width	
S1137-50X3X3000	Filling adhesive	
	Note: 3 rolls of filler per roll of PERP- PP	
S1401	Epoxy primer (optional), see datasheet S1401	

1	General order information (continued)		
4	Installation guide	For proper product installation, see latest	
١		installation instruction.	
١	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.	



Seal For Life Industries LLC Franklin, MA, USA Tel: +1 508 918 1600 Toll Free: +1 800 248 7659 Fax:+1 508 918 1905 Seal For Life Industries Tijuana, Mexico Tel USA: +1 858 633 9797 Fax USA: +1 858 633 9740 Tel Mx: +52 664 607 9105 mexico@sealforlife.com Seal For Life Industries Stopaq B.V. Stadskanaal, the Netherlands Tel: +31 599 696 170 Fax: +31 599 696 177 info@sealforlife.com Seal For Life Industries BVBA Westerlo, Belgium Tel: +32 14 722 500 Fax: +32 14 722 570 belgium@sealforlife.com Seal For Life India Private Ltd. Baroda, India Tel: +91 2667 264 721 Fax: +91 2667 264 724 india@sealforlife.com

Anodeflex® - Stopaq® - Polyken® - Covalence® - Powercrete® - Sealtaq® - Blockr® - Elasto.Qote®