PRODUCT DATA SHEET

COVALENCE® HTLP80

Product properties

Backing Property

Product Information

Product description: Covalence® HTLP80 system is a wrap-around heat-shrinkable sleeve which replicates the structure and the performance of factory applied three-layer PE coatings.

Construction: Three-layer system

- First layer. Liquid epoxy, solvent-free two-component.
- · Second layer. High shear strength copolymer adhesive.
- Third layer. Radiation cross-linked, high density polyethylene with permanent Change Indicator (PCI).

During installation, the epoxy is applied to the prepared pipe surface and the heat-shrinkable sleeve is immediately wrapped around the joint over the wet epoxy. Heat is then applied to the sleeve which shrinks to form a tight fit around the joint. While curing, the epoxy forms strong mechanical and chemical bonds to the pipe surface & to the copolymer adhesive layer. The cross-linked outer layer forms a tough barrier against mechanical damage and moisture transmission. If extra thickness is required over the weld bead, sleeve can be supplied with extra adhesive in the centre of the sleeve.

Features:

- Fully resistant to shear forces induced by soil and thermal movements.
- Sleeve applied over wet epoxy, allowing fast installation and formation of strong mechanical & chemical bonds.
- Superior cathodic disbondment and hot water immersion resistance.
- Fully reconstructs the coating of three-layer coated pipes.
- Dimpled backing provides a "permanent change" indicator for application of heat.

Benefits:

- The HTLP is tough & lasts as long as a 3-layer, factory applied coating.
- Allows fast application combined with high performance.
- Offers the optimum barrier protection against corrosion.
- HTLP systems allow three layer coated pipelines to have a virtually monolithic coating system.
- Dimpled backing allows easy post-heat inspection and offers a reliable inspectability at any time.

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ASTM D-638	3300 psi (22.8 MPa)
ASTM D-638	600 %
ASTM D-2240	57
ASTM D-792	0.97 kg/dm³
ASTM D-638,	40 psi
@150°C (302°F)	•
ASTM D-149	900 volts/mil
	(35 kV/mm)
ASTM D-570	0.04%
Test method	Typical value
ASTM E-28	120°C (248°F)
ASTM D-1002,	65 psi
2"/min @ 80°C (176°F) EN12068 @ 80°C (176°F)	0.18 N/mm²
Test method	Typical value
ASTM D-1000	40 lbs/in.width
EN12068	5.1 N/mm
80°C (176°F), 30	17 mm radius('S1301M) <5 mm radius('S1401M)
EN12068 @ 80°C (176°F), 28 days	12 mm radius(S1301M-
ASTM D-870 @	No delamination, no
days	blisters or water ingress
	0.003 in (0.067mm)
(1101)	
ASTM D2671, C	-25°C (-13°F)
,	76 in-lbs
ASTM D2671, C	,
ASTM D2671, C ASTM G-14	76 in-lbs
	ASTM D-638 ASTM D-2240 ASTM D-792 ASTM D-638, @ 150°C (302°F) ASTM D-149 ASTM D-570 Test method ASTM E-28 ASTM D-1002, 2"/min @ 80°C (176°F) EN12068 @ 80°C (176°F) Test method ASTM D-1000 EN12068 ASTM D-1000 EN12068 ASTM G-42 @ 80°C (176°F), 30 days EN12068 @ 80°C (176°F), 28 days ASTM D-870 @ 80°C (176°F), 120

Test method

Typical value

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 selection guide	
Max operating temperature	85°C (185°F).
Compatible line coatings	PE, FBE, Coal Tar, DFBE.
Min. preheat temperature	70°C (158°F)
Recommended pipe preparation	Sa 2½
Soil stress restrictions	None
Performance	EN 12068:
	Class C60 UV
	Class C80 UV
	ISO 21809-3

Product thickness				
	/B	/1-1.5	/C	/1.4-1.8
Backing as	0.75 mm	0.75 mm	1.04 mm	1.04 mm
supplied	(0.030 in)	(0.030 in)	(0.041 in)	(0.041 in)
Backing fully	1.0 mm	1.0 mm	1.4 mm	1.4 mm
free recovered	(0.039 in)	(0.039 in)	(0.055 in)	(0.055 in)
Adhesive as	1.0 mm	1.5 mm	1.5 mm	1.8 mm
supplied	(0.039 in)	(0.060 in)	(0.060 in)	(0.071 in)

^{*} Other thickness available on request. Minimum order quantities apply.

^{*} Construction /1-1.5 or thicker

Product order information

Covalence® HTLP80 products are available

- As cut piece (pre-cut with separate closure patch)
- As Uni-sleeve (pre-cut with attached closure patch)
- As a roll (closure patches to be ordered separately)
- With integrated weld bead filler (WBF)

Select sleeve width that will overlap onto the mill-applied coating by 50 mm (2 inches) minimum on each side of the weld joint. Take a 10% shrinkage during installation of sleeve into account when calculating minimum sleeve width.

Cut piece / l	Cut piece / Uni-sleeve		
Example	Example HTLP80-16000X17/B(/UNI) (WBF)		
	Designation	Standard ordering	
40000	Outside wise discussion	options	
16000	Outside pipe diameter	2.375" – 100.000"	
4-	01 '11' (')	(DN50 – DN2500)	
17	Sleeve width (in.)	17 (17.75" or 450 mm)*	
		20 (20.25" or 514 mm)*	
		24 (23.625" or 600 mm)*	
/B	Due donet this loss as	* nominal width /B	
/B	Product thickness	/B /1-1.5	
		/1-1.5 /C	
		/C /1.4-1.8	
UNI	Designates and ottocked	Optional	
UNI	Designates pre-attached closure patch	Optional	
WBF	Designates integrated	Optional	
	weld bead filler	Optional .	
Roll form (c	losure patch to be ordered s	separately)	
Example	HTLP80-20X100/1-1.5-RL (V	WBF)	
•	Designation	Standard ordering	
	-	options	
20	Sleeve width (in.)	17 (17.75" or 450 mm)*	
		20 (20.25"or 514 mm)*	
		24 (23.625" or 600	
		mm)*	
		* nominal width	
100	Roll length	100 ft (= 30 m)	
/1-1.5	Product thickness	/B	
		/1-1.5	
		/C	
		/1.4-1.8	
WBF	Designates integrated weld	Optional	
	bead filler		
Rolls can ha	ve a splice. Max 10% of the ro	ll order will have a splice.	
Min partial le	ength will be 5M or 15 ft.		
	ches (to be ordered separate	ely)	
Example	WPCP-IV-4X17	Otan danda i i	
	Designation	Standard ordering options	
4	Patch width (in.)	4 (100 mm)	
	,	6 (150 mm)	
		8 (200 mm)	
17	Patch length (in.)	17 (17.75" or 450 mm)*	
	- 3. ()	20 (20.25"or 514 mm)*	
		24 (23.625" or 600	
		mm)*	
		* nominal length	
		- J	

General information		
Product dimension	Sleeve cut lengths and appropriate closure patch widths depend on the pipe size and product construction, see latest application table AT-GIRTHWELD.	
Installation guide	For proper product installation, see latest application guideline.	
Recommended primer	HTLP type products are installed with epoxy primer. HTLP80 is installed with S1301-M or S1401 (-M).	
	Epoxy primers are ordered separately. For more ordering information on epoxy primers see latest PDS-S1301-M and PDS-S1401 (-M).	
	As field application of primers may vary, consult a Seal For Life representative or Authorized Distributor for rate of coverage guidance.	
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.	
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 email to info@sealforlife.com	
Certified staff	Application of the described coating system should be carried out by certified personnel.	



DISCLAIMER: Seal For Life Industries 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 Seal For Life Industries' written instructions. Because many installation factors are beyond the control of Seal For Life Industries, the user shall determine the suitability of the products for the intended uses and assume all risks and liabilities in connection herewith. Seal for Life's liability is stated in its General Terms and Conditions of Sale. Seal For Life Industries makes no other warranty either express 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 superseds all previous data sheets on this product. Seal For Life Industries is a registered marks of the Berry Global Group, Inc. or its affiliates.

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