

COVALENCE® HTLP80/1.4-1.3-RE

Product properties

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.

Features:

- Reduced edges: 75 mm at each sleeve edge, in correspondence with 3LPE overlap, the total as supplied thickness is reduced for ease of application
- 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.
- Reduced edges minimize application mistakes and ensure high adhesion to line coating with perfect joint sealing.
- 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.

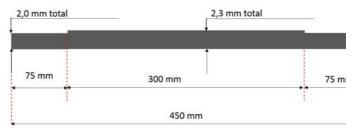
| Backing | | |
|---------------------------|-----------------------------|-----------------------------|
| | To at mostly and | Teminal colum |
| Property | Test method | Typical value |
| Tonoile etremeth et | ASTM D-638 | 22.8 MPa |
| Tensile strength at break | A311VI D-030 | 22.0 IVIPa |
| Elongation at break | ASTM D-638 | 600 % |
| Hardness, Shore D | ASTM D-030 | 57 |
| Density | ASTM D-792 | 0.97 Kg/dm3 |
| Shrink force | ASTM D-638 | 40 Psi |
| Sillink force | @ 150 °C | 40131 |
| Dielectric Strength | ASTM D-149 | 900V/mil (35 KV/mm) |
| Moisture absorption | ASTM D-570 | 0,04% |
| Adhesive | | • |
| Property | Test method | Typical value |
| 7.1000.13 | 7 COL MOLITOR | Typical raide |
| Softening point | ASTM E-28 | 120°C |
| Lap Shear | ASTM D-1002 | 65 Psi |
| zap Giloai | 2"7min @ 80 °C (17 | |
| | (| - , |
| | EN 12068 | 0,18 N/mm ² |
| | @ 80 °C | |
| Installed sleeve | | |
| Property | Test method | Typical value |
| | | |
| Peel to steel | ASTM D-1000 | 40 lbs(in.width |
| 0 (1 1) | EN 12068 | 5.1 N/mm |
| Cathodic | ASTM G-42 | 17 mm radius |
| disbondment | @ 80 °C, 30 days | |
| | EN 12068 | 12 mm radius |
| | @ 80 °C, 30 days | 12 mm radius |
| Hot water immersion | ASTM D-870 @ | No delamination, no |
| | 80°C, 120 days | blisters or water ingress |
| Soil stress creep | TP-206 @ 80°C | 0.003 in (0.067mm) |
| resistance | | |
| Low Temperature | ASTM D-2671-C | - 25 °C |
| flexiblity | | |
| Impact resistance | ASTM G-14 | 76 in-lbs |
| | EN 12068 Class C | > 15 J |
| Penetration | ASTM G-17 | No holidays @ 10,000 |
| Resistance | @ 80°C | volts |
| Indentation resistance | EN 12068 Class C @ 80 °C | Residual thickness > 0.6 mm |
| | | |

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 |
| 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: C60UV |
| | EN 12068: C80UV |
| | ISO21809-3 |







Ordering information

Covalence® HTLP80 products are available

As a roll (closure patches to be ordered separately)

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.

Roll form (closure patch to be ordered separately)

| | HTLP80-17X100/1.4-1.3-RE-RL | |
|---------|---|---------------------------|
| | Designation | Standard ordering options |
| 17 | Nominal Sleeve width in inches As supplied | 17" (17,75" or 450 mm) |
| 100 | Roll length (FT) | 100 ft (30 meters) |
| 1.4-1.3 | Product thickness | |
| RE | Reduced edges | |
| 1 | | |

| | WPCP-IV-8X17 Separa | WPCP-IV-8X17 Separate Closure patch | | |
|----|---------------------|-------------------------------------|--|--|
| | Designation | Standard ordering options | | |
| 8 | Patch width (in) | 4 in (100 mm) | | |
| | | 6 in (150 mm) | | |
| | | 8 in (200 mm) | | |
| 17 | Patch length (in) | 17" (17,75" or 450 mm) | | |
| | | | | |

| 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 installation guidelines. | |
| 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. | |

| 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 should be carried out by certified personnel. |



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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 n d u s t r i e s 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 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 www.sealforlife.com 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. Seal For Life Industries is a registered marks of the Berry Global Group, Inc. or its affiliates.

Local distributor / representative

For contact details of local distributor / representative Please visit www.sealforlife.com

Franklin, MA, USA

Tel: +1 508 918 1600

US Toll Free: +1 800 248 7659

Fax:+1 812 250 0834

franklin@sealforlife.com

S de R.L. de C.V. Tijuana, Mexico Tel USA +1 858 633 9797 Fax US: +1 858 633 9740 Tel Mexico: +52 664 647 4397 Fax Mexico: +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

Seal For Life Industries LLC Seal For Life Industries Mexico