

## POLYKEN<sup>®</sup> Utility Tapes

### Product Information

**Product description:** The Polyken<sup>®</sup> utility tape coating systems 900 and 908 have a rich tradition in the pipeline industry since their introduction in 1950. Designed specifically for the gas utility, oil field, and plumbing industries, the polyethylene backing and butyl rubber adhesive are highly conformable and remain flexible over a wide temperature range.

The Polyken utility tapes are designed for small diameter pipe applications on elbows, fittings, tees, field joints and pipe sections. Highly conformable hand applied system for tight uniform protection on a wide variety of metal substrates.

**Market:** oil, gas or water pipelines, refineries, wellhead, gathering & flow lines.

**Applications:** oil/gas field applications for gathering & flow lines.

#### Features:

- Established and proven performance.
- Conformable to irregular shapes specifications.
- Hand or machine application.
- Compatible with most generic plant coating systems.

### Product selection guide

Max. operating temperature	66°C (150°F)
Operating Temperature Range	-34° to 66°C (-30° to 150°F)
Recommended primer	1027
Recommended pipe preparation	SSA-ST2 (SSPC-SP3) or SSA-SA 2 (SSPC-SP6) 1 – 3 mil anchor profile (25 – 76 micron anchor profile)
Performance	AWWA C209
Available Colors	Black, Gray*, Yellow*

\* Only for 900-12

### Product construction

	900-12	908**
Total thickness	12 mils (0.30 mm)	8 mils (0.20 mm)
Backing	8 mils (0.20 mm)	5 mils (0.13 mm)
Adhesive	4 mils (0.10 mm)	3 mils (0.08 mm)

\*\* 908 is typically used on top of 931 anti-corrosion layer

### Product properties

Property	Method	Typical values		
		900-12	908	Units
Tensile Strength	ASTM D 1000	25 44	12 21	lb/in N/10mm
Elongation	ASTM D 1000	175	300	%
Peel adhesion to primed steel	ASTM D1000	100 11	100 11	oz/in N/10mm
Dielectric strength	ASTM D149	13	7	kV
Water vapor Transmission Rate	ASTM F1249 (100°F, 100% RH)	0.5 0.8	0.5 0.8	g/100in <sup>2</sup> /24hr g/cm <sup>2</sup> /24hr
Holiday detection voltage	NACE SP 0274	4.3	3.5	kV

Note: The typical values in this data sheet are based on lab prepared samples. For project specific requirements please consult your local SFL representative.

### Equation for Pipe Coating Requirements

**Squares\*\* of coating required**  $\frac{(\text{width of coating in inches}) \times (\text{area of pipe in square feet})^*}{(\text{width of coating in inches} - \text{overlap in inches}) \times 100}$

\* Area of pipe in ft<sup>2</sup> = (diameter in inches / 12) x 3.1416 x length in feet

\*\* One Square = one hundred square feet = 9.29 square meters

**Square meters of coating required**  $\frac{(\text{width of coating in mm}) \times (\text{area of pipe in square meter})^*}{(\text{width of coating in mm} - \text{overlap in mm})}$

\* Area of pipe in m<sup>2</sup> = (diameter in mm / 1000) x 3.1416 x length in meter

**Squares\*\* per roll**  $\frac{(\text{width of roll in inches}) \times (\text{length of roll in feet})}{(12) \quad (100)}$

**Square meters Per roll**  $\frac{(\text{width of roll in mm}) \times (\text{length of roll in m})}{(304.8) \quad (30.48)}$

**Rolls Required**  $\frac{(\text{squares of coating required})}{(\text{squares per roll})}$

**Rolls Required**  $\frac{(\text{square meters of coating required})}{(\text{square meters per roll})}$

### Ordering information

Polyken<sup>®</sup> 900, and 908 Tape Coatings are available in roll form.

Example **900-12 BLK 4X100**

900	Product type	Standard Ordering options
12	Total tape thickness in mils	See product construction table
BLK	Tape backing color	Black (BLK); Gray (GRA)*, Yellow (YEL)*
4	Tape width in inches	1" (26mm)*, 2" (51mm), 4" (101mm), 6" (152 mm)*,
100	Tape roll length in feet	100 ft (31 m) on 41 mm core

For other ordering options please contact your Seal For Life representative.

Application instruction: Job preparation	
<b>Tools, equipment and auxiliaries</b>	Temperature gauge, DFT/WFT gauge, Primer application equipment/agitator, Tape application equipment, Coating "hot box"
<b>Additional coating materials</b>	Specified Polyken primer.
<b>High humidity</b>	Polyken® Utility Tapes can be applied in a humid atmosphere. The substrate should be free from condensing water which can be reached by keeping the temperature at least 5°F (3°C) above dew point.
<b>Work area and substrate</b>	The substrate surface should be dry, clean and protected against negative weather influences.
<b>Product conditions</b>	The Polyken® Utility Tapes shall be stored and/or transported in a dry, ventilated location. Storage temperature shall be a minimum of 32°F (0°C) and a maximum of 122°F (50°C). Storage temperature for primer shall be a minimum of 60°F (16°C) and max 122°F (50°C). The minimum tape and primer temperature for application will be 60°F (16°C).

Handling and commissioning	
<b>Exposure to loads</b>	Objects coated with Polyken® Utility Tapes should not be exposed to loads e.g. from supports- or lifting equipment.
<b>Backfill</b>	Backfill is possible immediately after completion of the coating application. Consult application guidelines for specific instructions. Backfill should be clean and not contain any foreign items that can cause damage to the coating system.

Information	
<b>Documentation</b>	Extensive information is available on our website. Application instructions and other documentation can be obtained by contacting our offices, from our local distributor or by sending an email to <a href="mailto:info@sealforlife.com">info@sealforlife.com</a>
<b>Certified staff</b>	Application of the described coating system shall be carried out by certified personnel.

Application instruction: Surface preparation	
<b>General</b>	The area to be coated has to be clean, dry, and free from oil, grease and dust. All contamination including mill-scale has to be removed.
<b>Degreasing</b>	Degrease surfaces with Toluene or Heptane and e.g. a lint-free cloth.
<b>Preventing condensation of water</b>	Prior to and during the application, the temperature of the substrate(s) must be at least 5°F (3°C) above the dew point.
<b>Substrate temperature</b>	Temperature of the substrate should preferably be between 68°F and 104°F (20°C / 40°C). Preheating may be required.

Application instruction: Brief version*	
<b>Step 1</b>	Clean substrate to SSA-ST2, SSPC-SP3 (power wire brush) or SSA-SA 2, SSPC-SP6 (commercial blast). Surface (anchor) profile depth shall be no less than 1.0 mils (25 micron) and no greater than 3 mils (76 micron).
<b>Step 2</b>	Uniform primer application achieving 2 to 3 mil WFT. Primer should be "dry to touch" before application of inner layer.
<b>Step 3</b>	Spirally apply the Utility Tapes with a 1% to 2% neckdown and no less than a 1" overlap.
<b>Step 4</b>	Perform holiday detection per NACE SP0274

\* For further detailed information, please view the corresponding Application Guidelines



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 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.

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Local distributor / representative

For contact details of local distributor / representative Please visit [www.sealforlife.com](http://www.sealforlife.com)

<b>Seal For Life Industries LLC</b> Charlotte NC, USA Tel: +1 858 633 9708 <a href="mailto:sales@sealforlife.com">sales@sealforlife.com</a>	<b>Seal For Life Industries Mexico</b> 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 <a href="mailto:mexico@sealforlife.com">mexico@sealforlife.com</a>	<b>Seal For Life Industries</b> Stopaq B.V. Stadskanaal, the Netherlands Tel: +31 599 696 170 Fax: +31 599 696 177 <a href="mailto:info@sealforlife.com">info@sealforlife.com</a>	<b>Seal For Life Industries BVBA</b> Westerlo, Belgium Tel: +32 14 722 500 Fax: +32 14 722 570 <a href="mailto:belgium@sealforlife.com">belgium@sealforlife.com</a>	<b>Seal For Life India Private Ltd.</b> Baroda, India Tel: +91 2667 264 721 Fax: +91 2667 264 724 <a href="mailto:india@sealforlife.com">india@sealforlife.com</a>
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