

## POLYKEN<sup>®</sup> 905

### Product Information

**Product description:** Polyken<sup>®</sup> 905 can be used as a Primary Coating or as an Outer Wrap for other Polyken<sup>®</sup> Coating Systems i.e. Polyken<sup>®</sup> 930. The Polyken<sup>®</sup> 905 has a Polyethylene backing with a Butyl rubber-based adhesive to assure high bond to primed steel pipe and other coating materials. It is designed for machine and hand applied applications and delivers excellent conformability when applied over seamed, spiral welded or extruded pipe. Because of the high corrosion protection inherent in the combination of Polyethylene film and Butyl rubber adhesive, Polyken<sup>®</sup> products have proven in-ground success against both chemical and electrolytic corrosion. It is designed to be used on joints, fittings, and pipes. When the UV version is selected the Polyken<sup>®</sup> 905 will withstand sunlight under normal conditions for those applications where the pipes are stored above ground.

#### Features:

- Firm butyl rubber adhesive avoiding blocking and edge bleed out.
- Worldwide reference lists.
- Impermeable to oxygen and moisture.
- Uniform coating thickness.
- Low cathodic protection-current requirements.
- Compatible with all pipe diameters and generic plant coating systems.

#### Benefits:

- Especially suitable in hot and humid conditions.
- Proven long-term in-ground performance.
- Plant coating quality with in-situ application.
- Saving cost over the life of the pipeline.
- Minimizes inventory, thus saving money.

### Product selection guide

<b>Max operating temperature</b>	85°C (185°F)
<b>Recommended primer</b>	1019, 1027, 1033A or 1039
<b>Compatible line coatings</b>	FBE, PE, Cold Tape, CT, CTE
<b>Recommended pipe preparation</b>	SSPC-SP6 NACE3 or SA 2 ½ or ST3
<b>Repair Material</b>	934-35 or PERP
<b>Performance</b>	AWWA C-209 EN12068 B30

### Product construction

	905-30	905-40
<b>Backing</b>	10 mils (0.254 mm)	10 mils (0.254 mm)
<b>Adhesive</b>	20 mils (0.508 mm)	30 mils (0.762 mm)
<b>Backing color</b>	White, Black, UV White	White, Black, Grey, Yellow

### Ordering information

Polyken<sup>®</sup> 905 Tape Coatings are available in roll form.

Example	905-30 WHI 4x50 4.1 cm		Standard Ordering Options
905	Product type		
30	Total tape thickness in mils	30 mils (0.762 mm), 40 mils (1.016 mm)	
WHI	Tape backing color	White (WHI), Black (BLK), UV White (WHI UVI), Gray (GRA), Yellow (YEL)	
4	Tape width in inches	2" (50 mm), 4" (101 mm), 6" (152 mm), 18" (457 mm)	
50	Tape roll length in feet	50 ft (15 m), 400 ft (122 m)	
4.1 cm	Tape inner core diameter	4.1 cm (1.6"), 7.6 cm (3.0")	

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

### Product properties of Polyken<sup>®</sup> 905

Property	Method	Typical values	
		905	Units
<b>Tensile strength</b>	ASTM D 1000	35 6.1	pli N/mm
<b>Elongation</b>	ASTM D 1000	225	%
<b>Peel adhesion to primed steel</b>	ASTM D 1000	12.5 2.2	pli N/mm
<b>Cathodic disbondment</b>	ASTM G 8	0.25 6.4	in radius mm
<b>Water vapor transmission rate</b>	ASTM F 1249 (100°F, 100% RH)	0.02 0.3	g/100 in <sup>2</sup> /24 hr g/m <sup>2</sup> /24 hr
<b>Volume resistivity</b>	ASTM E 257	10 <sup>15</sup>	Ω.cm
<b>Dielectric breakdown</b>	ASTM D 1000	650 25.6	V/mil kV/mm
<b>Dielectric strength</b>	ASTM D 149	20-23	kV

### 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 ft

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

**Square meters of coating required** =  $\frac{(\text{width of coating in mm}) \times (\text{area of pipe in square meter})^*}{(\text{width of coating in mm} - \text{overlap in mm}) \times 100}$

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

### Information

**Documentation** Extensive information is available on our web-site. Application instructions and other documentation can be obtained by contacting our offices, from our local distributor or by sending an email to [info@sealforlife.com](mailto:info@sealforlife.com).

**Certified staff** Application of the described coating system should be carried out by certified personnel.



PART OF THE BERRY PLASTICS ENGINEERED MATERIALS DIVISION

Anodefex<sup>®</sup> – Stopaq<sup>®</sup> – Polyken<sup>®</sup> – Covalence<sup>®</sup> – Powercrete<sup>®</sup>

### SEAL FOR LIFE TECHNOLOGY CENTRE

Gasselterstraat 20, 9503 JB Stadskanaal  
the Netherlands  
[www.sealforlife.com](http://www.sealforlife.com)

Seal For Life Industries LLC  
Houston, TX, USA  
Tel: +1 713 676 0085  
US Toll Free: +1 888 676 7202  
Fax: +1 713 676 0086  
[houston@sealforlife.com](mailto:houston@sealforlife.com)

Seal For Life Industries BV  
Stadskanaal, the Netherlands  
Tel: +31 599 696 170  
Fax: +31 599 696 177  
[info@sealforlife.com](mailto:info@sealforlife.com)

Seal For Life Industries  
Tijuana, Mexico  
Tel USA: +1 858 633 9797  
Fax USA: +1 858 633 9740  
Tel Mexico: +52 664 647 4397  
Fax Mexico: +52 664 607 9105  
[mexico@sealforlife.com](mailto:mexico@sealforlife.com)

Seal For Life Industries BVBA  
Westerlo, Belgium  
Tel: +32 14 722 500  
Fax: +32 14 722 570  
[belgium@sealforlife.com](mailto:belgium@sealforlife.com)

Seal For Life Private Ltd.  
Baroda, India  
Tel: +91 2667 264 721  
Fax: +91 2667 264 724  
[india@sealforlife.com](mailto:india@sealforlife.com)