

# Polyken # 930

Tape Coating for Joints & Fittings



Market	Applications	Temperature Range	Performance
Oil, Gas or Water pipelines Pipeline Rehabilitation	Girthwelds for Water, Oil or Gas pipelines	up to 85°C (185°F)	AWWA C-209; DIN30672 and EN 12068 class B30

## System Description

The Polyken #930 is a cold applied tape coating system designed for the corrosion protection of field joints, fittings and specialty piping.

The products can be used for both buried and above ground applications, and the product is suitable to resist UV irradiation. The unique adhesive retains conformability over a wide temperature range, yet exhibits

an elevated level of shear resistance, which is a key in-ground performance characteristic. Couple with a very maleable polyethylene backing, this versatile tape system can be applied by hand or with a wrapping machine.

## Product Advantages

- **Heavy duty adhesive**  
Ensures a strong bond & impervious seal.
- **Conformable to irregular shapes**  
Offers a solution for nearly every application.
- **No release liner**  
Makes installation fast and easy.
- **Worldwide reference lists**  
Established in-ground history.
- **Complies with AWWA Standard C-209**  
Reliable, high performance corrosion protection.
- **Compatible with generic plant coating systems**  
Versatile.

## Product Selection Guide

- **Max operating temperature**  
185°F (85°C)
- **Recommended primer**  
1027 or 1033A
- **Additional mechanical layer**  
955 or 954
- **Compatible line coatings**  
PE, FBE, Tape & Coal Tar
- **Recommended pipe preparation**  
SSPC-SP2, SP3 & SP6 ST 2<sup>1/2</sup> - ST 3
- **Performance**  
AWWA C-209; DIN30672 & EN12068 class B30

DS-930-REV9-APR12-AARPS-0351

## Product Construction

	930-35	930-50
• <b>Backing</b>	6.5 mils (0.165 mm)	10 mils (0.254 mm)
• <b>Adhesive</b>	28.5 mils (0.724 mm)	40 mils (1.0.16 mm)
• <b>Backing Color</b>	Black, White*	Black*

\* Other colours are available on request.

## Product Properties

Properties	Test Method	Typical Value	
		930-35	930-50
Tensile Strength	ASTM D1000	15 lbs/in. (26 N/cm)	25 lbs/in. (44 N/cm)
Elongation	ASTM D1000	340%	300%
Peel Adhesion to Primed Steel	ASTM D1000	250 oz/in. (27 N/cm)	300 oz/in. (33 N/cm)
Cathodic Disbondment	ASTM G8	0.25 in. radius (6.4 mm)	0.25 in. radius (6.4 mm)
Water Vapor Transmission	ASTM E96B	0.07 perm	0.07 perm
Water Vapor Transmission Rate	ASTM F1249 (100°F, 100% RH)	0.04g/100in. <sup>2</sup> /24hr (0.6/m <sup>2</sup> )	0.04g/100in. <sup>2</sup> /24hr (0.6/m <sup>2</sup> )
Volume Resistivity	ASTM E257	2.5 x 10 <sup>16</sup> ohm•cm	2.5 x 10 <sup>16</sup> ohm•cm
Dielectric Breakdown	ASTM D1000	650 volts/mil (25.6 kV/mm)	650 volts/mil (23.6 kV/mm)
Dielectric Strength	ASTM D149	21 kV	28 kV
Insulation Resistance	ASTM D1000	1.4 x 10 <sup>7</sup> M ohm	2.0 x 10 <sup>7</sup> M ohm
Impact Resistance	EN12068	>8 Nm	>8 Nm
Penetration Resistance	EN12068	Class B30	Class B30

## Ordering Information

Polyken 930 Tape Coatings are available in roll form.

930-35 BLK 2 X 50FT 1.5	
Tape inner core diameter	1.5, 3" (38, 76 mm)
Tape roll length	50 FT (15 M)
Tape width	1, 2, 5, 6" (25, 50 101, 152 mm)
Tape backing color	Black (BLK), White (WHI), Blue (BLU)
Total tape thickness	35, 50 mils (0.89, 1.27 mm)

For other ordering options please contact your Berry Plastics representative.

### Equation for Pipe Coating Requirements

$$\frac{(\text{Width of Coating in inches}) \times (\text{Area of pipe in square feet})^*}{(\text{Width of Coating in inches} - \text{Overlap in inches}) \times 100} = \text{Squares}^{**} \text{ of Coating Required}$$

$$(\text{Width of Coating in inches} - \text{Overlap in inches}) \times 100$$

\* Area of pipe in square feet = (Diameter in inches) / 12 x 3.1416 x (Length in ft)

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

$$\frac{(\text{Width of Coating in mm}) \times (\text{Area of pipe in square meter})^*}{(\text{Width of Coating in mm} - \text{Overlap in mm})} = \text{Square meters of Coating Required}$$

$$(\text{Width of Coating in mm} - \text{Overlap in mm})$$

\*Area of pipe in square meter = (Diameter in mm) / 1000 x 3.1416 x (Length in meter)



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