



# POLYKEN® #934 Tape Coating

# Polyken® Pipeline Coatings

## System Description

The Polyken #934 is a cold applied tape coating system designed for the corrosion protection of field joints, fittings and specialty piping. The highly conformable backing and thick aggressive adhesive also make it the ideal repair system for all types of main line coatings. The Polyken #934 tape with very tacky adhesive has a release plastic liner to enable proper unwinding of the roll. Whether used as a double wrap system or as a single wrap with a mechanical layer, the Polyken #934 tape coating system is universally specified in the oil, gas and water industries.

## Product Features/Benefits

- **Heavy duty adhesive**  
Ensures a strong bond & impervious seal
- **Conformable to irregular shapes**  
Offers a solution for nearly every application
- **Thick aggressive adhesive**  
Very useful as repair system for line coatings
- **Worldwide reference list**  
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

### #934

Max operating temperature	66°C (150°F)
Recommended primer	1027 or 1033A
Additional mechanical layer	955 or 954
Compatible line coatings	PE, FPE, Tape & Coal Tar
Recommended pipe preparation	ST 2 1/2 – ST 3
Performance	AWWA C-209

## Product Construction

### 934-35

### 934-50

Backing	7 mils (0.178 mm)	10 mils (0.254 mm)
Adhesive	28 mils (0.711 mm)	40 mils (1.016 mm)
Backing color	White*	White*

\* Other colors are available on request

## Product Properties

Product Properties	Test method	Typical Value	Typical Value
		#934-35	#934-50
Tensile Strength	ASTM D1000	15 lbs/in (26 N/cm)	25 lbs/in (43 N/cm)
Elongation	ASTM D1000	150 %	150 %
Peel Adhesion to Primed Steel	ASTM D1000	225 oz/in (25 N/cm)	320 oz/in (35 N/cm)
Cathodic Disbondment	ASTM G8	0.44 in radius (11.2 mm)	0.38 in radius (9.7 mm)
Water Vapor transmission	ASTM E96B	0.02 perm	0.02 perm
Water Vapor Transmission Rate	ASTM F1249	0.05g/100in <sup>2</sup> /24hr (0.8g/m <sup>2</sup> )	0.05g/100in <sup>2</sup> /24hr (0.8g/m <sup>2</sup> )
		(100°F, 100% RH)	
Volume Resistivity	ASTM E257	4 x 10 <sup>14</sup> ohm•cm	4 x 10 <sup>14</sup> ohm•cm
Dielectric Breakdown	ASTM D1000	650 volts/mil (25.6 kV/mm)	600 volts/mil ( 23.6 kV/mm)
Dielectric Strength	ASTM D149	23 kV	30 kV
Insulation resistance	ASTM D1000	1.4 x 10 <sup>7</sup> MOhm	2.0 x 10 <sup>7</sup> MOhm

## Ordering Information

Polyken 934 Tape Coatings are available in roll form

Example : **934-35 WHI 2X50FT 1.5**

934	Product type	Standard Ordering options
35	Total tape thickness in mils	35 mils (0.89 mm), 50 mils (1.27 mm)
WHI	Tape backing color	White (WHI), Blue (BLU)
2	Tape width in inches	2" (50 mm), 4"(101 mm), 6"(152 mm),
50FT	Tape roll length in feet	50 FT (15M)
1.5	Tape inner core diameter in inch	1.5"(38 mm),3"(76 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)

Berry Plastics 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 Berry Plastics written instructions. Since many installation factors are beyond the control of Berry Plastics, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Berry Plastics liability is stated in the standard terms and conditions of sale. Berry Plastics makes no other warranty either expressed 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.



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