



POLYKEN® # 4000-35 PCS Primerless Coating System

Polyken® Pipeline Coatings

System description

The 4000-35 PCS is a cold applied coating system designed for the corrosion protection of field joints, fittings, and specialty piping. This system does not require a primer or liquid adhesive. 4000-35 can be applied to wire brushed or sandblasted pipe surface. The high tack butyl rubber adhesive is designed for high initial adhesion even during extreme cold weather applications. The 4000-35 PCS with a very tacky adhesive has a plastic release liner to enable proper unwinding of the roll. Coupled with the highly conformable polyethylene backing, the adhesive optimally flows, fills and instantaneously bonds to the substrate. This versatile coating system can be applied by hand or with a wrapping machine.

Product features/ benefits

- **No Primer needed**
Labor saving application
- **Environmental friendly**
Eliminates VOC emissions
Eliminates dangers associated with a Hazardous product
- **Compatibility with generic plant coating systems**
Versatile
- **Heavy duty / high tack adhesive**
Ensures a strong bond & impervious seal
- **Meets AWWA C209 standard**
Reliable high performance corrosion protection
- **Conformable to irregular shapes**
Offers a solution for nearly every application
- **Above and below ground use**
Flexible

Product selection guide

4000-35 PCS

Operating temperature range	30°F (-4°C) to 122° F (50 °C)
Additional mechanical layer	955 or 954
Compatible line coatings	PE, FBE, Tape and Coal Tar DS-4000-35-PCS-REV1-1206
Recommended pipe preparation	SSPC-SP2, SP3 and SP6 ST 2 ½ - ST3
Performance	AWWA C209

Product construction

4000-35 PCS

Total Thickness	35 mils (0.89 mm)
Backing	8.0 mils (0.20 mm)
Adhesive	27.0 mils (0.69mm)
Backing color	Black, White and Yellow

Product properties

	Test method	Typical value
Tensile strength	ASTM D 1000	15 lbs/in (26 N/cm)
Elongation	ASTM D 1000	150 %
Water Vapor transmission	ASTM E 96B	.07 perm
Water Vapor Transmission Rate	ASTM-F1249 (100°F (38°C), 100% RH)	0.04 g/100in ² /24 hr (.6g/m ²)
Volume Resistivity	ASTM E257	2.5 x 10 ¹⁵
Dielectric Strength	ASTM D149	21 kV
Dielectric Breakdown	ASTM D1000	650 volts /mil (25.6 kV/mm)
Insulation Resistance	ASTM D1000	1.4 x 10 ¹⁷ MOhm
Peel adhesion to steel	ASTM D1000 @ 70° F (21°C) ASTM D1000 @ 10 °F (-12°C)	160 oz/in (17 N/cm) 110 oz/in (12 N/cm)
Cathodic Disbondment	ASTM G8 @ 68--70°F (20-21°C)	0.87 in (22mm) sand blast surface, 30 days

Ordering Information

Polyken 4000 PCS Primerless Coating System

Example : 4000-35 BLK 2 X 50 FT 3.0

4000	Product type	Standard Ordering options
35	Total tape thickness in mils	35 mils (0.89 mm)
BLK	Tape backing color	Black (BLK)
2	Tape width in inches	2"(50 mm), 4" (101mm), 6" (152mm)
50FT	Tape roll length in feet	50 FT (15M)
3.0	Tape inner core diameter in inch	3" (76 mm)

For other ordering options please contact your Berry Plastics representative.

Equation for Pipe Coating Requirements

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

(Width of Coating in inches – Overlap in inches) x100

* 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

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

(Width of Coating in mm – 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.



CORROSION PROTECTION GROUP

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