



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
- **Compatible 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 | 6.5 mils (0.17 mm) |
| Adhesive | 28.5 mils (0.72mm) |
| Backing color | black |

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

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

* 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

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

*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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