



## POLYKEN® # 2000HS, 2036, 2055 High Temperature and High Shear Coating System

### System Description

The Polyken 2000HS coating system is designed for joints and in field application on pipe where soil stress conditions exist and with a maximum operating temperature of 200°F (93°C). The system consists of a solvent based elastomeric primer (Polyken 2019 or 2027) and an anti-corrosion layer formulated with a high-shear elastomeric adhesive and a stabilized polymeric backing for long-term stability at elevated temperature (Polyken 2000HS or 2036). A specially designed mechanical protection layer can also be added in areas where it is needed (Polyken 2055).

### Product Advantages

**Proven backing and adhesive formulation for long term temperature resistance and flexibility up to 200°F (93°C)**

Long-lasting performance

**User-friendly application to new or operating pipelines**

Save time and Money

**Manufactured at ISO certified Facility**

Reliability and Safety

**Shear Resistance at elevated temperature**

Provides high functional performance and safety

**High operating temperature rating**

Top performance in demanding conditions

**Plant or in-field application**

Flexible and conformable backing for easy plant or field application

### System Components

**Primer layer #2019**

Percent solids: 20%

Wt/gal: 7.4 lbs

Flash point: 7°C (+45°F)

**Primer Layer #2027**

Percent solids: 30%

Wt/gal 7.1lbs

Flash point +4°C (+40°F)

**Corrosion Layer #2000/2036**

Thickness: 25 and 30 mils;

0.635 mm and 0.762 mm

Tensile strength: 40 lbs/in

70 N/10 mm

Elongation: 500%

**Mechanical Layer #2055**

Thickness: 25 mils;

0.635 mm and 0.64 mm

Tensile strength: 70 lbs/in

122 N/10 mm

Elongation: 500%

### System Properties – 50 mil System (2000/2036-25 with 2055-25)

	English	Metric
<b>Peel Adhesion to Primed Pipe:</b>		
• ASTM D 1000	18.8 lbs/in	32.7 N/10 mm
<b>Cathodic Disbondment:</b>		
• ASTM G 42 (90°C)	0.8 in radius	20.3 mm radius
<b>Water Vapor Transmission Rate:</b>		
• ASTM E398	0.03 g/100 in <sup>2</sup> /24 hr	0.5 g/m <sup>2</sup> /24 hr
<b>Volume Resistivity:</b>		
• ASTM E 257	2.5 x10 <sup>15</sup> ohm•cm	2.5 x10 <sup>15</sup> ohm•cm
<b>Dielectric Strength:</b>		
• ASTM D 149	22 kv	22 kv
<b>Impact Resistance:</b>		
• ASTM G 14	45 in•lb	5.1 Joules
<b>Penetration Resistance:</b>		
• ASTM G 17	<15%	<15%
<b>Temperature Range*:</b>		
• Normal application	-30° to 160° F	-34° to 71° C
• Normal continuous service	-30° to 200° F	-34° to 93° C
• Interim short internal operating temperature	-30° to 220° F	-34° to 104° C

\*Contact a Berry Plastics representative for specific project recommendations.

## Ordering Information

Polyken #2000/2036-25 and 2055-25 are available in roll form

Example: 2036-25 BLK 4X50FT		Standard Ordering options
2036	Product type	2000, 2036, 2055
25	Total Product Thickness	25 mils/0.635mm
BLK	Tape backing color	Black (2000, 2036, 2055); White (2055 only)
4	Tape Width Thickness	2", 4", 6", 18"
50	Tape roll length	50ft (on 2", 4", 6" wide), 200ft (on 6" wide), 400ft (on 6" wide) 600ft (on 18" wide) & 800ft (on 4", 6" wide)

For 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)

DS-2000-SERIES-REV7-May11



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