



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	Primer Layer #2027	Corrosion Layer #2000/2036	Mechanical Layer #2055
Percent solids: 20%	Percent solids: 30%	Thickness: 25 and 30 mils;	Thickness: 25 mils;
Wt/gal: 7.4 lbs	Wt/gal 7.1lbs	0.635 mm and 0.762 mm	0.635 mm and 0.64 mm
Flash point: 7°C (+45°F)	Flash point +4°C (+40°F)	Tensile strength: 40 lbs/in 70 N/10 mm	Tensile strength: 70 lbs/in 122 N/10 mm
		Elongation: 500%	Elongation: 500%

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

	English	Metric
Peel Adhesion to Primed Pipe:		
• ASTM D 1000	18.8 lbs/in	32.7 N/10 mm
Cathodic Disbondment:		
• ASTM G 42 (90°C)	0.8 in radius	20.3 mm radius
Water Vapor Transmission Rate:		
• ASTM E398	0.03 g/100 in ² /24 hr	0.5 g/m ² /24 hr
Volume Resistivity:		
• ASTM E 257	2.5 x10 ¹⁵ ohm•cm	2.5 x10 ¹⁵ ohm•cm
Dielectric Strength:		
• ASTM D 149	22 kv	22 kv
Impact Resistance:		
• ASTM G 14	45 in•lb	5.1 Joules
Penetration Resistance:		
• ASTM G 17	<15%	<15%
Temperature Range*:		
• 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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