



POLYKEN® #989

YGIII INNERWRAP

Basic Use

Polyken #989 is a primary coating system incorporating polyethylene backing with a butyl rubber based adhesive designed for use in plant coating operations. Polyken #989 provides for superior bond to primed steel pipe and delivers excellent conformability when applied over seamed, spiral welded or extruded pipe. Because of the proven high corrosion protection inherent in the combination of polyethylene film and butyl rubber adhesive, Polyken #989 has proven in-ground success against both chemical and electrolytic corrosion. Regardless of the environmental factors, whether the pipeline lies in Arctic permafrost or torrid desert, Polyken #989 can be safely specified as the pipeline protection coating.

Product Features/Benefits

- **Proven Performance**

Polyken #989 is a member of the #980 series which has one of the most respected histories in the pipeline corrosion protection industry. It has been engineered to meet all the anti-corrosion needs for plant-applied coatings and to be equal to the most rigorous challenges of pipeline construction.

- **Unequaled Adhesion**

The butyl rubber adhesive system on Polyken #989 is unmatched for high bond to primed steel. The unique Polyken manufacturing process of lamination of film to adhesive assures a totally integrated corrosion protection system, both during storage time and in the ground.

- **Easy Application**

Cold applied #989 is specifically designed to easily achieve a uniform lap, maximum bond and optimum conformability under controlled tension. The result is a uniform, reproducible, consistent coating over the entire length of any size pipe. Because of this consistently high quality corrosion protection, Polyken is the normal coating selection of field-experienced engineers.

Product Construction

Backing	Polyethylene, high/low density. Color: black
Adhesive	Butyl rubber, synthetic resin

Product Properties

	Test Method	English	Metric
Total Thickness	ASTM D 1000	15 20.5 25 mils	0.381 0.520 0.635 mm
Backing Thickness	ASTM D 1000	9 9.5 10 mils	0.229 0.241 0.254 mm
Adhesive Thickness	ASTM D 1000	6 11 15 mils	0.152 0.279 0.381 mm
Tensile Strength	ASTM D 1000	30 lb/in width	5.4 kg/cm width
Elongation	ASTM D 1000	200%	200%
Adhesion to Backing	ASTM D 1000	20 oz/in width	0.22 kg/cm width

* Peak average of adhesion to it's own backing

Electrical and Moisture Resistance

Dielectric Strength	ASTM D 1000	23 21 21 kV	23 21 21 kV
Insulation Resistance	ASTM D 257	1,000,000 megohms	1,000,000 megohms
Water Vapor Transmission Rate	ASTM E 398	<0.2 gm/100 in ² /24 hr.	<0.03 gm/100 cm ² /24 hr.

NOTE: Dielectric strength is not intended as a suggested holiday jeeping voltage. Refer to NACE Standard RP-02-74 for recommended holiday jeeping after voltage.

Temperature Range:

Normal Application (ambient temperature)	-30°F to 160°F	-34°C to 71°C
Normal Service (operating temperature)	-30°F to 185°F	-34°C to 85°C

DS-989-REV-3-Febl0

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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