

Polyken # 1600-HT

High Temperature Coating System



Market

Oil, Gas or Water pipelines Pipeline Rehabilitation

Applications

Girthwelds for Water, Oil or Gas pipelines

Temperature Range

up to 250°F (121°C)

System Description

1600-HT Polyken system is designed for the corrosion protection of new and existing pipelines with a maximum operating temperature of 250°F (121°C).

The products can be used for both buried and above ground applications, and the product is suitable to resist UV irradiation. The coating layer consists of a cross-linked polyethylene backing and a cross-linked elastomeric adhesive capable of maintaining

long-term protection at elevated temperature. The 1600 HT has a release liner to enable proper unwinding of the roll.

Product Advantages

- Proven cross-linked backing formulation for long term temperature resistance and flexibility up to 248°F (120°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

- 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 #1619 Percent solids: 20 Wt/ga: 7.4 lbs Flash point: 45°F (7°C)
- #1619

Thickness: 25 and 30 mils (0.635 and 0.762 mm)

Tensile strength: 40 lbs/in (7N/10mm) Elongation: 500%

Product Construction

Backing

Backing Color

Adhesive

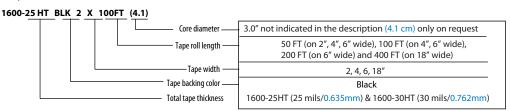
1600-25HT 1600-30HT 10 mils (0.25 mm) 10 mils (0.25 mm) Black or grey Black or grey 15 mils (0.38 mm) 20 mils (0.50 mm) DS-1600-HT-REV2-APR12-AARPS-0166

Product Properties - 50 mil System

	Test Method	Typical Value	
		English	Metric
Peel Adhesion to pipe	ASTM D1000 @ 23°C	24 lbs/in.	42 N/ 10 mm
Peel Adhesion to backing	ASTM D1000 @ 23°C	10.4 lbs/in.	18.2 N/ 10 mm
Shear Adhesion to Pipe	Modified Aleyeskay method 85°C 121°C	0.0014 in/hr. 0.0002 in/hr.	1 x 10 ⁻⁸ m/sec 1.3 x 10 ⁻⁹ m/sec
Cathodic Disbondment	ASTM G8	0.4 in. radius	10 mm radius
Water Vapor Transmission Rate	ASTM E398 (100°F, 100% RH)	<0.01g/100 in. ² /24hr	<0.1g/m²/ 24hr
Impact Resistance	ASTM G14	27 in. lb	3.1 Joules
Penetration resistance	ASTM G17 21°C 121°C	40% 53%	40% 53%
Volume resistivity	ASTM D257	10 ¹⁵ ohm•cm	10¹⁵ ohm•cm
Dielectrical strength	ASTM D149	40 kV	40 kV
Temperature range	Normal in-ground service	-30° to 250°F*	+34° to 121°C
* contact a Berry Plastics representative for	specific project recommendations		

Ordering Information

Polyken 1600-25HT and -30HT are available in roll form.



For other ordering options please contact your Berry Plastics representative.

Equation for Pipe Coating Requirements

(Width of Coating in inches) x (Area of pipe in square feet)*

= Squares** of Coating Required
(Width of Coating in inches – Overlap in inches) x100

^{*}Area of pipe in square meter = (Diameter in mm) $/1000 \times 3.1416 \times (Length in meter)$



CORROSION PROTECTION GROUP

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MATSERVICE PETRÓLEO ÚNICO REPRESENTANTE PARA EL TERRITORIO BOLIVIANO

Headquarters

Franklin, MA, USA
Tel: +1 508 918 1714
US Toll Free: +1 800 248 0149
Fax: +1 508 918 1910
CPG@berryplastics.com

Houston, TX, USA Tel: +1 713 676 0085 US Toll Free: +1 888 676 7202 Fax:+1 713 676 0086 CPGH@berryplastics.com Tijuana, Mexico
Tel USA +1 858 633 9797
Fax US: +1 858 633 9740
Tel Mexico: +52 664 647 4397
Fax Mexico: +52 664 607 9105
CPGTJ@berryplastics.com

Westerlo, Belgium Tel. +32 14 722500 Fax +32 14 722570 CPGE@berryplastics.com Baroda, India Tel: +91 2667 264721 Fax: +91 2667 264724 CPGIN@berryplastics.com

^{*} Area of pipe in square feet = (Diameter in inches) / $12 \times 3.1416 \times (Length in ft)$

^{**} One Square = One hundred square feet = 9.29 square meters