

POLYKEN[®] 955

Product Information

Product description: Polyken[®] 955 is a protective pipeline mechanical outerwrap that is used where a complete bond of outerwrap to tape is specified. Because it is a polyethylene film with a bonding adhesive, it stays with the tape and never disappears or disintegrates. The adhesive assures a complete bond and eliminates the need for tie-downs on the outerwrap. Designed for machine application at the same time the primary coating is applied. The standard color of 955 is white.

Features:

- Proven Performance.
- Tight and long term Bond.
- Easy application.

Benefits:

- Polyken[®] 955 is one of a family of Polyken[®] outerwraps that have proven themselves on pipeline throughout the world over the past sixty years.
- The recommended outerwrap wherever a complete bond to tape is required. Tough, pressure-sensitive adhesive means the outerwrap bonds and stays permanently.
- Engineered to achieve a taut, smooth machine wrap over a wide range of primary coatings, Polyken[®] 955 is the first choice when an adhesive bond of the outerwrap to the primary coating is specified. Gives a smooth, tough protection to the pipeline under all climatic conditions, in any terrain, anywhere in the world.

Product selection guide

Max. operating temperature	85°C (185°F)
Compatible Layers	Polyken [®] 930, 980, 989 and components in Polyken [®] YGIII system
Performance	AWWA C-214

Product construction

	955-15	955-20	955-25	955-30
Backing	10 mils (0.254 mm)	15 mils (0.381 mm)	20 mils (0.508 mm)	25 mils (0.635 mm)
Adhesive	5 mils (0.127 mm)	5 mils (0.127 mm)	5 mils (0.127 mm)	5 mils (0.127 mm)
Backing color	White	White	White	White

*Other colors are available on request

Ordering information

Polyken [®] 955 Tape Coatings are available in roll form.		
Example	955-20 WHT 12X1000	
955	Product type	<i>Standard Ordering options</i>
20	Total tape thickness in mils	15 mils (0.381 mm), 20 mils (0.508 mm), 25 mils (0.635 mm), 30 mils (0.762 mm)
WHT	Tape backing color	White (WHT)
12	Tape width in inches	2" (51mm), 4" (101mm), 6" (152 mm), 9" (228 mm), 12" (305 mm), 18" (457 mm)
1000	Tape roll length in feet	100 ft (31 m), 200 ft (61 m), 400 ft (122 m), 600 ft (183 m), 800 ft (244 m), 1000 ft (305 m)
(4.1 CM)	Optional core size	Standard internal ID core size: 3" (76 mm), optional 4.1 cm for 2", 4" and 6" wide rolls

For other ordering options please contact your Seal For Life representative.

Product properties

Property	Method	Typical values				Units
Total Thickness		15	20	25	30	Mils
		0.381	0.508	0.508	0.762	mm
Breaking Strength	ASTM D 1000	30	40	50	50	lb/in width
		52.5	70	87.5	87.5	N/cm width
Elongation	ASTM D 1000	250	400	400	400	%
Peel adhesion to backing	ASTM D 1000	40	40	40	40	oz/in width
		4.4	4.4	4.4	4.4	N/cm width
Impact resistance*	ASTM G-14	45				In-lbs

* when tested on 40 mils total coating thickness with 980-20.

Equation for Pipe Coating Requirements

Squares of coating required** $\frac{(\text{width of coating in inches}) \times (\text{area of pipe in square feet})^*}{(\text{width of coating in inches} - \text{overlap in inches}) \times 100}$

* Area of pipe in ft² = (diameter in inches / 12) x 3.1416 x length in feet
 ** One Square = one hundred square feet = 9.29 square meters

Square meters of coating required $\frac{(\text{width of coating in mm}) \times (\text{area of pipe in square meter})^*}{(\text{width of coating in mm} - \text{overlap in mm})}$

* Area of pipe in m² = (diameter in mm / 1000) x 3.1416 x length in meter

Squares per roll** $\frac{(\text{width of roll in inches})}{(12)} \times \frac{(\text{length of roll in feet})}{(100)}$

Square meters Per roll $\frac{(\text{width of roll in mm})}{(304.8)} \times \frac{(\text{length of roll in m})}{(30.48)}$

Rolls Required $\frac{(\text{squares of coating required})}{(\text{squares per roll})}$

Rolls Required $\frac{(\text{square meters of coating required})}{(\text{square meters per roll})}$

Application instruction: Job preparation	
Tools, equipment and auxiliaries	Temperature gauge, DFT/WFT gauge, Primer application equipment/agitator, Tape application equipment, Coating "hot box"
Additional coating materials	933-25 weld seam coating, specified Polyken primer, 930,980 or 989 anticorrosion layer, 956 mechanical protection layer.
High humidity	Polyken® 955 can be applied in a humid atmosphere. The substrate should be free from condensing water which can be reached by keeping the temperature at least 5°F (3°C) above dew point.
Work area and substrate	The substrate surface should be dry, clean and protected against negative weather influences.
Product conditions	The Polyken® 955 shall be stored and/or transported in a dry, ventilated location. Storage temperature shall be a minimum of 60°F (16°C) and a maximum of 120°F (49°C). The minimum primer temperature for application will be 60°F (16°C). The YGIII coating system rolls shall be stored in a temperature controlled storage room for a minimum of 24 hours prior to application. The ambient storage temperature shall not exceed 120° F (49°C).

Application instruction: Surface preparation	
General	The area to be coated has to be clean, dry, and free from oil, grease and dust. All contamination including mill-scale has to be removed.
Degreasing	Degrease surfaces with Toluene or Heptane and e.g. a lint-free cloth.
Preventing condensation of water	Prior to and during the application, the temperature of the substrate(s) must be at least 5°F (3°C) above the dew point.
Substrate temperature	Temperature of the substrate should preferably be between 68°F and 104°F (20°C / 40°C). Preheating may be required.

Application instruction: Brief version	
Step 1	Clean substrate to SSPC-SP6 /NACE3 or SA 2 (commercial blast) with a 1 – 3 mil anchor profile (25 – 76 micron anchor profile)
Step 2	Uniform primer application achieving 2 to 3 mil WFT. Primer should be "dry to touch" before application of inner layer.
Step 3	If required, apply weld seam coating

* For further detailed information, please view the corresponding Application Guideline *

Step 4	Spirally apply the 930, 980 or 989 inner layer (anti corrosion) with a 1% to 2% neckdown and no less than a 1" overlap
Step 5	Spirally apply the 955 middle layer (mechanical protection) with a 1% to 2% neckdown and no less than a 1" overlap.
Step 6	Spirally apply the 956 outer layer (mechanical protection) with a 1% to 2% neckdown and no less than a 1" overlap. (If utilizing an 80 mil system)
Step 7	Perform holiday detection per NACE SP0274

Handling and commissioning	
Exposure to loads	Objects coated with Polyken® 955 should not be exposed to loads e.g. from supports- or lifting equipment.
Backfill	Backfill is possible immediately after completion of the coating application. Consult application guidelines for specific instructions. Backfill should be clean and not contain any foreign items that can cause damage to the coating system.

Information	
Documentation	Extensive information is available on our website. Application instructions and other documentation can be obtained by contacting our offices, from our local distributor or by sending an email to info@sealforlife.com
Certified staff	Application of the described coating system should be carried out by certified personnel.



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DISCLAIMER: Seal For Life Industries 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 Seal For Life Industries' written instructions. Because many installation factors are beyond the control of Seal For Life Industries, the user shall determine the suitability of the products for the intended uses and assume all risks and liabilities in connection herewith. Seal For Life's liability is stated in its General Terms and Conditions of Sale. Seal For Life Industries makes no other warranty either express 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. Seal For Life Industries is a registered marks of the Berry Global Group, Inc. or its affiliates.