



POLYKEN[®] 932 Tape Coating

Polyken[®] Pipeline Coatings

System Description

The Polyken 932 is a cold applied tape coating system designed for the corrosion protection of field joints, fittings and specially piping. Polyken 932-35 is suitable and can be used to protect longitudinal and spiral weld pipe welds. The high tack butyl rubber adhesive is designed for high initial adhesion, even during extreme cold weather applications. The Polyken 932 tape has very tacky adhesive and comes with a plastic release liner to enable proper unwinding of the roll. Coupled with the highly conformable polyethylene backing, the 932 adhesive optimally flows, fills and instantaneously bonds to the substrate. This versatile tape system can be applied by hand or with a wrapping machine.

Product Features/Benefits

- Heavy duty adhesive
Ensures a strong bond & impervious seal
- Conformable to irregular shapes
Offers a solution for nearly every application
- High tack adhesive
Very useful in extreme cold weather applications
- Worldwide reference list
Established in-ground history
- Complies with AWWA Standard C-209 , EN12068, DIN30672
Reliable, high performance corrosion protection
- Compatible with generic plant coating systems
Versatile

Product Selection Guide

#932

| | |
|------------------------------|---|
| Max operating temperature | 50°C (122°F) |
| Recommended primer | 1027 or 1033A |
| Additional mechanical layer | 955 or 954 |
| Compatible line coatings | PE, FBE, Tape & Coal Tar |
| Recommended pipe preparation | SSPC-SP2, SP3 and SP6 ST 2 1/2 – ST 3 |
| Performance | AWWA C-209, EN12068 & DIN 30672 class B30 |

| Product Construction | 932-35 | 932-50 | 932-65 |
|----------------------|----------------------|--------------------|--------------------|
| Backing | 6.5 mils (0.165 mm) | 10 mils (0.254 mm) | 30 mils (0.762mm) |
| Adhesive | 28.5 mils (0.724 mm) | 40 mils (1.016 mm) | 35 mils (0.889 mm) |
| Backing color | Black, White* | Black, White* | Black, White* |

* Other colors are available on request

| Product Properties | Test method | Typical Value | | |
|-------------------------------|-------------|-------------------------------|-------------------------------|-------------------------------|
| | | 932-35 | 932-50 | 932-65 |
| Tensile Strength | ASTM D1000 | 15 lbs/in (26 N/cm) | 25 lbs/in (44 N/cm) | 50 lbs/in (88N/cm) |
| Elongation | ASTM D1000 | 150 % | 150 % | 500% |
| Peel Adhesion to Primed Steel | ASTM D1000 | 150 oz/in (17 N/cm) | 160 oz/in (18 N/cm) | 160 oz/in (18N/cm) |
| Peel Adhesion to Primed Steel | EN12068 | 8 N/cm (81 oz/in) | | |
| Cathodic Disbondment | ASTM G8 | 0.25 in radius (6.4 mm) | 0.25 in radius (6.4 mm) | 0.25 in radius (6.4 mm) |
| Cathodic Disbondment | EN12068 | 0.10 in radius (2.5 mm) | | |
| Water Vapor transmission | ASTM E96B | 0.07 perm | 0.07 perm | 0.07 perm |
| Water Vapor Transmission Rate | ASTM E398 | 0.6g/m ² /day | 0.6g/m ² /day | 0.3 g/m ² /day |
| Volume Resistivity | ASTM E257 | 2.5 x 10 ¹⁶ ohm•cm | 2.5 x 10 ¹⁶ ohm•cm | 2.5 x 10 ¹⁶ ohm cm |
| Dielectric Breakdown | ASTM D1000 | 650 volts/mil (25.6 kV/mm) | 650 volts/mil (25.6 kV/mm) | 650 volts/mil (25.6 kV/mm) |
| Dielectric Strength | ASTM D149 | 21 kV | 28 kV | 35 kV |
| Insulation resistance | ASTM D1000 | 1.4 x 10 ⁷ MOhm | 2.0 x 10 ⁷ MOhm | 2.5 x 10 ⁷ MOhm |
| Impact resistance | EN12068 | >8 Nm | >8Nm | >8Nm |
| Penetration resistance | EN12068 | Class B30 | Class B30 | Class B30 |

Ordering Information

Polyken 932 Tape Coatings are available in roll form

Example : 932-35 BLK 2X50FT 4.1cm

| 932 | Product type | Standard Ordering options |
|--------|----------------------------------|---|
| 35 | Total tape thickness in mils | 35 mils (0.89 mm), 50 mils (1.27 mm), 65 mils (1.65 mm) |
| BLK | Tape backing color | Black (BLK), White (WHI) |
| 2 | Tape width in inches | 2" (50 mm), 4"(101 mm), 6"(152 mm) |
| 50FT | Tape roll length in feet | 50 FT (15M) |
| 4.1 cm | Tape inner core diameter in inch | 4.1cm (1.6"), 76 mm (3") |

For other ordering options please contact your Berry Plastics representative.

Equation for Pipe Coating Requirements

$$\frac{(\text{Width of Coating in inches}) \times (\text{Area of pipe in square feet})^*}{(\text{Width of Coating in inches} - \text{Overlap in inches}) \times 100} = \text{Squares}^{**} \text{ of Coating Required}$$

$$(\text{Width of Coating in inches} - \text{Overlap in inches}) \times 100$$

* 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

$$\frac{(\text{Width of Coating in mm}) \times (\text{Area of pipe in square meter})^*}{(\text{Width of Coating in mm} - \text{Overlap in mm})} = \text{Square meters of Coating Required}$$

$$(\text{Width of Coating in mm} - \text{Overlap in mm})$$

*Area of pipe in square meter = (Diameter in mm) /1000 x 3.1416 x (Length in meter)



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Local Distributor / Representative:

MESA PRODUCTS

4445 SO 74 E AVE

TULSA OK 74145

888-800-MESA

For contact details of local Distributors / Representatives

Please visit www.berrycpg.com.

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