

CanusaWrap™

Two-piece protective bulk roll with separate closure

Canusa-CPS is a leading manufacturer of specialty pipeline coatings which, for over 30 years, have been used for sealing and corrosion protection of pipeline joints and other substrates. Canusa high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate your specific project applications.

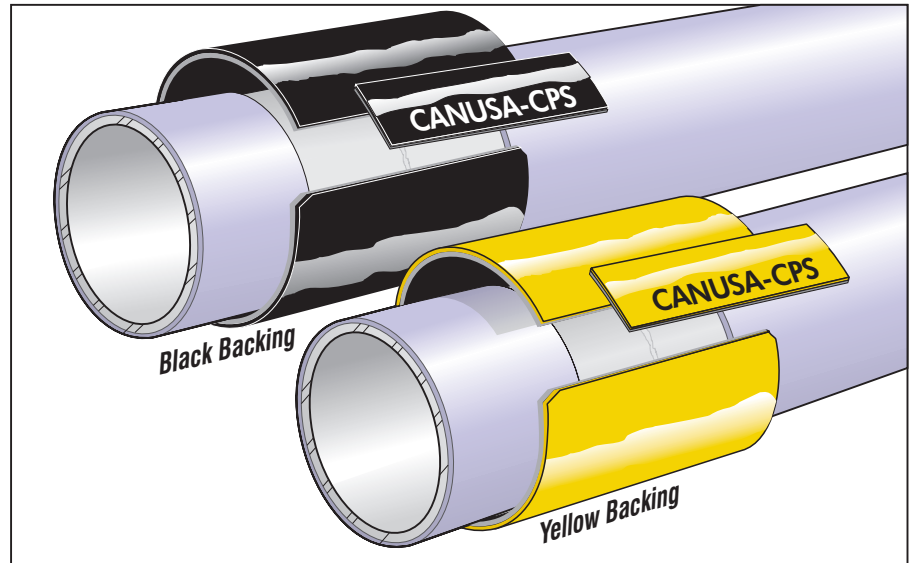
Product Description

CanusaWrap™ is a wraparound sleeve with a separate closure designed for corrosion protection of buried and exposed steel pipelines. CanusaWrap™ is supplied in bulk rolls consisting of a crosslinked polyolefin backing, coated with a protective heat activated adhesive. Once installed, the system effectively bonds and protects steel substrates and common main line pipe coatings including polyethylene and fusion bonded epoxy.

Features & Benefits

Long-Term Corrosion Protection

CanusaWrap™ provides excellent resistance to cathodic disbondment resulting in effective long term corrosion protection. The high performance crosslinked backing, in combination with a broad range of adhesives, can be engineered for regular or high stress environments. Once installed, CanusaWrap™ provides the structural integrity of a seamless tube, and provides the substrate with durable protection against abrasion and chemical attack.



Flexibility on the Job Site

Since CanusaWrap™ is supplied in bulk rolls, just-in-time customized lengths can be quickly cut in the field to protect any pipe size. This flexibility results in reduced inventories and cost savings on the job site. CanusaWrap™ is also available in a high shrink ratio for high profile joint protection. Consult the High Shrink data sheet or your Canusa representative for additional information.

Easy Field Installation

CanusaWrap™ can be installed quickly and easily in most environments. Since no special taping, priming or operator equipment is required, product installation is quick and labour costs are kept to a minimum. CanusaWrap™ and the closure seals are available in yellow with a thermochromic indicator and a patented Windoweld feature which visually confirms optimum installation.

Applications



Oil & Gas



Water Pipelines



Polypropylene



Pre-Insulated Pipes



Girth-Weld Joints

Configurations



CanusaWrap™



2-Layer



Standard Shrink

Pipe Sizes



55 - 1520 (2" - 60")

Temperature Range



up to 80°C (176°F)

Product Selection Guide

Choose your sleeve based on Operating Temperature and Characteristics listed below.

| Sleeve Operating Characteristics | Celsius | Fahrenheit | Mastic Adhesives | | | | | | Hot Melt Adhesives | | |
|--------------------------------------|---------|------------|---|------------|------------|------------|-------------|--------------|--------------------|----------|---------|
| | | | WLG WTG | WLC WTC | WLS WTS | WLO WTO | WLN WTON | WLNN WTNN | WLA | WLAS | |
| Minimum Installation Temperature | 110° | 230° | 50 (122) | 60 (140) | 65 (150) | 75 (167) | 75 (167) | 90 (195) | 60 (140) | 90 (195) | |
| Resistance to Circumferential Forces | 90° | 194° | fair | fair | good | good | good | good | v. good | excl | |
| Resistance to Soil Stress | 70° | 158° | fair | fair | good | good | good | good | v. good | excl | |
| Resistance to Axial Pipe Movement | 50° | 122° | fair | fair | good | good | good | good | v. good | excl | |
| Main Line Coating Compatibility | 30° | 86° | ← PE, PP, FBE, PU, Coal tar, Bitumen, → | | | | | | PE, PP, FBE | PE, FBE | PE, FBE |

Typical Product Properties

* For higher temperature requirements refer to Canusa GTS product line.

| Adhesive | Test Standard | Unit | WLG | WLC | WLS | WLO | WLN | WLNN | WLA | WLAS | |
|------------------------------------|-----------------------------|-------------------------|---------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Softening Point | ASTM E28 | °C (°F) | 100 (212) | 90 (194) | 77 (171) | 102 (216) | 102 (216) | 124 (255) | 72 (162) | 90 (194) | |
| Lap Shear | DIN 30 672 M | N/cm ² (psi) | 8 (12) | 30 (44) | 40 (58) | 40 (58) | 40 (58) | 52 (75) | 60 (87) | 117 (170) | |
| Backing | Specific Gravity | ASTM D792 | .93 | .93 | .93 | .93 | .95 | .95 | .93 | .93 | |
| | Tensile Strength | ASTM D638 | 20 (2900) | 20 (2900) | 20 (2900) | 24 (3480) | 24 (3480) | 24 (3480) | 20 (2900) | 24 (3480) | |
| | Elongation | ASTM D638 | 600 | 600 | 600 | 700 | 700 | 700 | 600 | 700 | |
| | Hardness | ASTM D2240 | Shore D | 46 | 46 | 46 | 48 | 52 | 52 | 46 | 48 |
| | Abrasion Resistance | ASTM D1044 | mg | 45 | 45 | 45 | 35 | 30 | 30 | 45 | 35 |
| | Volume Resistivity | ASTM D257 | ohm-cm | 10 ¹⁷ | 10 ¹⁷ | 10 ¹⁷ | 10 ¹⁷ | 10 ¹⁸ | 10 ¹⁸ | 10 ¹⁷ | 10 ¹⁷ |
| | Dielectric Voltage Brkdown. | ASTM D149 | kV/mm | 27 | 20 | 20 | 27 | 20 | 20 | 20 | 27 |
| Sleeve | Impact * | DIN 30 672 | class C | pass | pass | pass | pass | pass | pass | pass | |
| | Indentation * | DIN 30 672 | class C | pass | pass | pass | pass | pass | pass | pass | |
| | Peel | ASTM D1000 | N/cm (pli) | 15 (9) | 55 (31) | 79 (45) | 80 (46) | 80 (46) | 115 (66) | 50 (29) | 120 (70) |
| | Peel | DIN 30 672 | N/cm (pli) | 8 (5) | 50 (29) | 70 (40) | 65 (37) | 65 (37) | 90 (51) | 35 (20) | 86 (50)** |
| | Cathodic Disbondment | ASTM G8 | mm rad | 6 | 6 | 8 | 8 | 8 | 10 | 13 | 11 |
| | Water Absorption | ASTM D570 | % | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| | Low Temp. Flexibility | ASTM D2671C | °C (°F) | -40 (-40) | 5 (23) | -20 (-4) | -14 (7) | -14 (7) | -15 (5) | -32 (-26) | -28 (-18) |
| DIN Approval * | DIN 30 672 | class | -- | -- | -- | C30 | C30 | -- | C50 | C50 | |
| Fully Recovered T Sleeve Thickness | | mm (mils) | ← 2.5 (99) → | | | ← 2.3 (90) → | | | -- | -- | |
| Fully Recovered L Sleeve Thickness | | mm (mils) | ← 3.3 (131) → | | | ← 2.8 (111) → | | | ← 3.3 (131) → | | |

* Denotes L sleeve thickness** backing elongation during peeling due to superior bond strength

How To Order:

| Dimensions & Ordering Info | WLO-B 450-30 BK | Bulk Roll Ordering Options | | Closure Seal Options | | | | |
|---------------------------------|-----------------|--|-----------------------|--|-------------------------------------|---|--|--|
| | | Heavy Duty Thickness (L) | Regular Thickness (T) | CLW-B 100-15 ZZ Weldable Closure | CLH-B XXX-15 BK Hot Melt Closure | CLS-B 100-15 ZZ Butyl Adhesive Closure | | |
| | | Bulk Roll Length | | BK-Black, YE-Yellow | | ZZ-BK, WW, YE BK ZZ-BK, YE | | |
| | | Sleeve / Closure Width | | 15, 30 m (50, 100 ft) | | Bulk: 15,30 m (50,100 ft) Precut: 300,450,600,900mm, (12,18,24,36") | | |
| | | Bulk Roll Designation | | 300, 450, 600, 900mm, (12, 18, 24, 36") | | 100mm (4") 115, 150mm (4,6") 100mm (4") | | |
| | | Adhesive (thickness as supplied) | | B - Bulk Roll designation | | B - Bulk Roll | | |
| Backing (thickness as supplied) | | 1.7 mm (65 mils) ¹ 1.25 mm (50 mils) ¹ | | W- n/a H-0.35mm (14mils) S-0.75 mm (30mils) | | | | |
| Configuration | | L - 0.9 mm (36 mils) T - 0.6 mm (25 mils) | | 0.65mm (27 mils) 0.6mm (32 mils) 0.8mm (32 mils) | | | | |
| | | W - Bulk Roll | | C - Closure Seal | | | | |

¹ NN has an adhesive thickness of 1.1mm (45 mils)

Bulk Roll Lengths: up to 600 mm width: 30 m (100ft), above 600 mm width: 15 m (50ft)

The above represents standard ordering options Consult your Canusa representative for any unique project requirements, including pre-cut sleeves or closures.

² WTON, WLN, WTNN, WLNN are available in black only.



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