

# CanusaWrap™

Two piece protective bulk roll with separate closure

Canusa is a leading manufacturer of crosslinked, heat shrinkable products 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 Wrapid Sleeve™, CanusaWrap™, CanusaTube™, and Wrapid Tape™ configurations to accommodate your specific project applications.

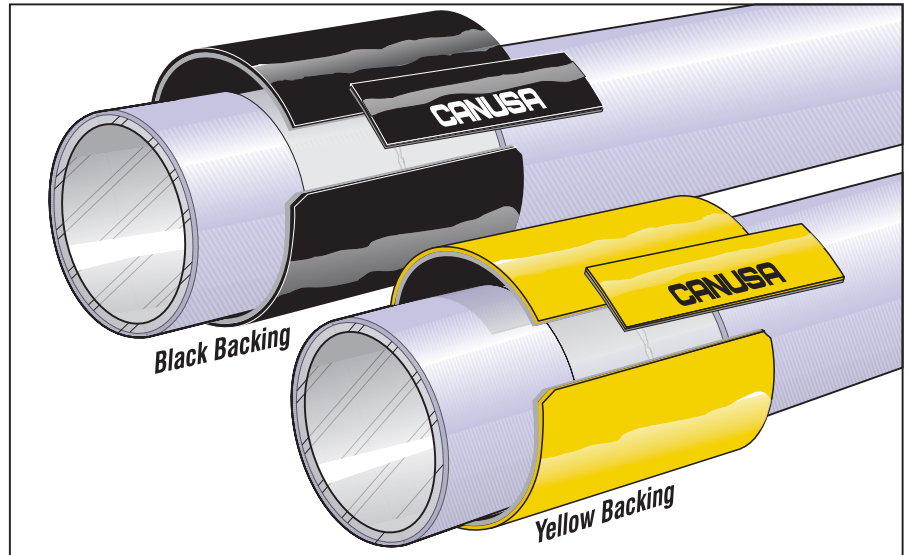
## Product Description

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.



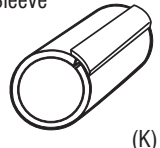
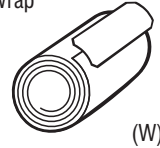
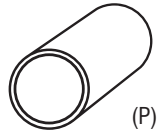
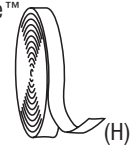
### Flexibility on the Job Site.

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.

### Available Configurations

Wrapid Sleeve™  (K)	
CanusaWrap™  (W)	✓
CanusaTube™  (P)	
Wrapid Tape™  (H)	

### Shrink Ratio

 Standard	✓
 High Shrink	

# CanusaWrap™

The product selection chart shown here is intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications. The following are typical values based on Black, Heavy Duty (L) Sleeves.

## 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	WLON WTON	WLNN	WLA	WLAS	WLE	
Pipeline Operating Temperature	110°	230°										
	90°	194°										
	70°	158°										
	50°	122°										
	30°	86°										
Minimum Installation Temperature	°C (°F)		50 (122)	60 (140)	65 (150)	75 (167)	75 (167)	90 (195)	60 (140)	90 (195)	115 (240)	
Resistance to Circumferential Forces			fair	fair	good	good	good	good	v. good	excl	excl	
Resistance to Soil Stress			fair	fair	good	good	good	good	v. good	excl	excl	
Resistance to Axial Pipe Movement			fair	fair	good	good	good	good	v. good	excl	excl	
Main Line Coating Compatibility			← PE, PP, FBE, PU, Coal tar, Bitumen, →						PE, PP, FBE	PE, FBE	PE, FBE	PE, FBE

## Typical Product Properties

Adhesive	Test Standard	Unit	Mastic Adhesives						Hot Melt Adhesives			
			WLG (WTG)	WLC (WTC)	WLS (WTS)	WLO (WTO)	WLON (WTON)	WLNN	WLA	WLAS	WLE	
Softening Point	ASTM E28	°C (°F)	100 (212)	90 (194)	77 (171)	102 (216)	102 (216)	124 (255)	72 (162)	90 (194)	105 (221)	
Lap Shear	DIN 30 672 M	N/cm <sup>2</sup> (psi)	8 (12)	30 (44)	40 (58)	40 (58)	40 (58)	52 (75)	60 (87)	117 (170)	280 (400)	
Backing	Specific Gravity	ASTM D792	.93	.93	.93	.93	.95	.95	.93	.93	.93	
	Tensile Strength	ASTM D638	20 (2900)	20 (2900)	20 (2900)	24 (3480)	24 (3480)	24 (3480)	20 (2900)	24 (3480)	24 (3480)	
	Elongation	ASTM D638	600	600	600	700	700	700	600	700	700	
	Hardness	ASTM D2240	Shore D	46	46	46	48	52	52	46	48	48
	Abrasion Resistance	ASTM D1044	mg	45	45	45	35	30	30	45	35	35
	Volume Resistivity	ASTM D257	ohm-cm	10 <sup>17</sup>	10 <sup>17</sup>	10 <sup>17</sup>	10 <sup>17</sup>	10 <sup>18</sup>	10 <sup>18</sup>	10 <sup>17</sup>	10 <sup>17</sup>	10 <sup>17</sup>
	Dielectric Voltage Brkdwn.	ASTM D149	kV/mm	27	20	20	27	20	20	20	27	27
Sleeve	Impact *	DIN 30 672	class C	pass	pass	pass	pass	pass	pass	pass	pass	
	Indentation *	DIN 30 672	class C	pass	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)	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)**	86 (50)**
	Cathodic Disbondment	ASTM G8	mm rad	6	6	8	8	8	17	13	11	15
	Water Absorption	ASTM D570	%	0.05	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)	-20 (-4)
	DIN Approval *	DIN 30 672	class	--	--	--	C30	C30	--	C50	C50	--
	Fully Recovered T Sleeve Thickness		mm (mils)	← 2.8 (111) →						← 2.8 (111) →		
	Fully Recovered L Sleeve Thickness		mm (mils)	← 3.3 (131) →						← 3.3 (131) →		

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

## 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-BK Welded Closure	CLS-115-450-BK Adhesive Closure
Colour		BK-Black, YE-Yellow		BK, WW, YE	BK, YE
Bulk Roll Length		up to 600 mm width: 30 m (100ft), above 600 mm width: 15 m (50ft)		15m (50ft) or cut to size	cut to size
Sleeve / Closure Width		300, 450, 600, 900mm, (12", 18", 24", 36")		100mm (4")	115mm (4.5")
Bulk Roll Designation		B - Bulk Roll designation		B - Bulk Roll	n/a
Adhesive (thickness as supplied)		1.7 mm (65 mils)	1.5 mm (60 mils)	W- welded	S- 0.8mm (30mils)
Backing (thickness as supplied)		L - 0.9 mm (36 mils)	T - 0.6 mm (25 mils)	L - 0.7mm (27 mils)	L - 0.8mm (32 mils)
Configuration		W - Bulk Roll		C - Closure Seal	

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



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Canusa 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 Canusa's written instructions. Since many installation factors are beyond our control, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection therewith. Canusa's liability is stated in the standard terms and conditions of sale. Canusa 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. E&OE