

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.

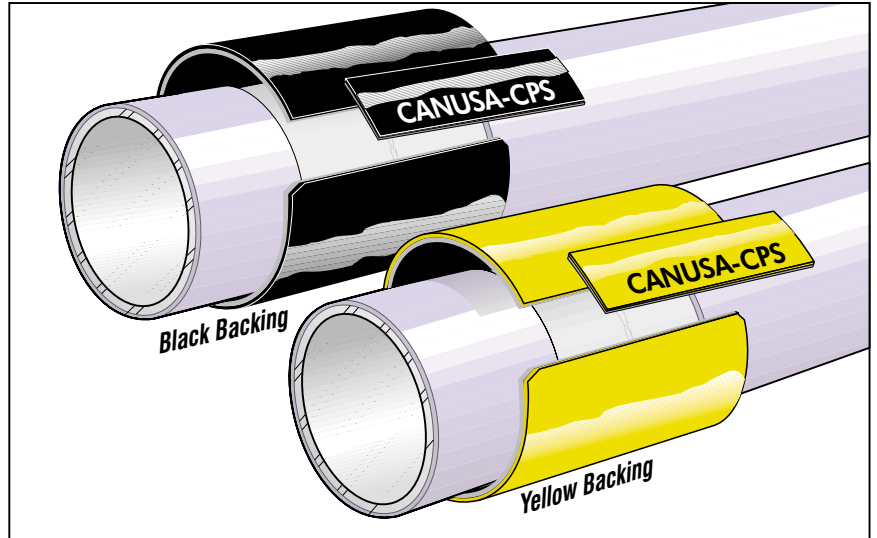
Features & Benefits

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



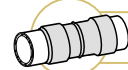
Polypropylene



Water Pipelines



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	
	°C	°F	WLG WTG	WLC WTC	WLS WTS	WLO WTO	WLN WTON	WLNN WTNN	WLA	WLAS
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)
Resistance to Circumferential Forces			fair	fair	good	good	good	good	v. good	excl
Resistance to Soil Stress			fair	fair	good	good	good	good	v. good	excl
Resistance to Axial Pipe Movement			fair	fair	good	good	good	good	v. good	excl
Main Line Coating Compatibility			← PE, PP, FBE, PU, Coal tar, Bitumen, →				PE, PP, FBE			

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

Typical Product Properties

Adhesive	Test Standard	Unit								
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	Test Standard	Unit								
Specific Gravity	ASTM D792		.93	.93	.93	.93	.95	.95	.93	.93
Tensile Strength	ASTM D638	MPa (psi)	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 Brkdw.	ASTM D149	kV/mm	27	20	20	27	20	20	20	27
Sleeve	Test Standard	Unit								
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	17	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) ----->	←----- 3.3 (131) ----->

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

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
Colour		BK-Black, YE-Yellow		ZZ-BK, WW, YE	BK	ZZ-BK, YE
Bulk Roll Length		15, 30 m (50, 100 ft)		Bulk: 15, 30 m (50, 100 ft) Precut: 300, 450, 600, 900mm, (12, 18, 24, 36")		
Sleeve / Closure Width		300, 450, 600, 900mm, (12, 18, 24, 36")		100mm (4")	115, 150mm (4, 6")	100mm (4")
Bulk Roll Designation		B - Bulk Roll designation		B - Bulk Roll		
Adhesive (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)
Backing (thickness as supplied)		L - 0.9 mm (36 mils)	T - 0.6 mm (25 mils)	0.65mm (27 mils)	0.6mm (32 mils)	0.8mm (32 mils)
Configuration		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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