

GTS-80

Girth-weld protection of elevated operating temperature pipelines

Canusa-CPS is a leading manufacturer of specialty pipeline coatings which, for over 35 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

The GTS-80 systems provide superior corrosion protection and excellent bonding on pipelines operating up to 80°C. GTS-80 has been designed with a unique adhesive technology that remains “open” longer than traditional adhesives. Also, special surface active agents allow bonding to lower surface energy coatings (such as polypropylene). As a result, lower pre-heat temperatures are required to attain true adhesive wet-out and superior bonding to PE, PP and FBE surfaces is achieved.

Features & Benefits

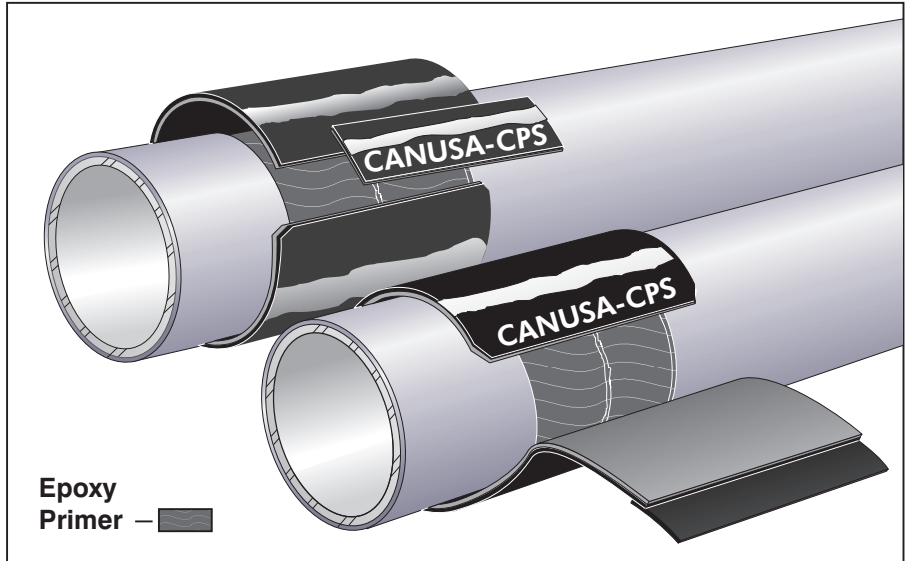
Superior Force Cured Epoxy Method

Canusa’s proven method of force curing the epoxy primer to the steel allows the installer to “pre-inspect” the joint prior to sleeve application. The epoxy will not be displaced during the aligning and shrinking stages of the sleeve installation. This provides the assurance that the pipe is fully protected. Canusa’s epoxy primer can be applied to an even, nominal 150 µm (6 mil) thickness for maximum corrosion protection.

Unique Adhesive Technology

Canusa’s unique adhesive technology allows for lower installation pre-heat temperatures and superior bonding to PE, PP and FBE coatings. The adhesive has been formulated to bond directly to the main line coating; epoxy is applied to the steel only. The result is a superior bond to the substrate, easier application and significant cost savings.

CANUSA-CPS is registered to ISO 9002-1994.



Flexible Installation

For added flexibility, CanusaWrap bulk rolls are also available. Consult your Canusa representative to review your specific project requirements.

Long Term Corrosion Protection

GTS-80 sleeves provide superior corrosion protection because of the high performance system approach. This combination provides a protective coating with the structural integrity of a seamless tube, providing excellent resistance to cathodic disbondment and excellent durability against abrasion and chemical attack. The result is effective, long term protection against corrosion.

Saves Time & Money

Time is saved in three ways; lower pre-heat means less time heating; epoxy on the steel only, means less time applying the epoxy; and the pre-attached closure means less time handling, positioning and installing the sleeve. The overall system minimizes installation time and labour costs while promoting high production rates.

Applications



Oil & Gas



Offshore Pipelines



Polypropylene

Configurations



Wrapid Sleeve™



CanusaWrap™



3-Layer

Pipe Sizes



55-3048 (2"-120")

Temperature Range



Up to 80°C (176°F)

Approvals



EN 12068, Shell, ADNOC, TransCanada

Product Selection Guide

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

Sleeve Operating Characteristics	Celsius	Fahrenheit	GTS-80	
		200°	392°	
	175°	347°		
	125°	257°		
	100°	212°		
	75°	167°		
	50°	122°		
Pipeline Operating Temp.	°C (°F)		80 (175)	
Minimum Installation Temp.	°C (°F)		110 (230)	
Resistance to Circumferential Forces			excellent	
Resistance to Soil Stress			excellent	
Resistance to Axial Pipe Movement			excellent	
Main Line Coating Compatibility			FBE, PE, HPCC, PP	

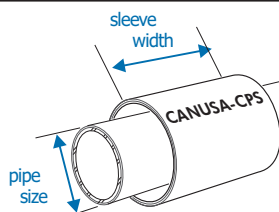
Typical Product Properties

Adhesive	Test Standard	Unit	GTS-80
Softening point	ASTM E28	°C (°F)	124 (255)
Lap shear	EN 12068	N/cm ²	365
Backing	Test Standard	Unit	GTS-80
Specific gravity	ASTM D792		0.94
Tensile strength	ASTM D638	MPa (psi)	22 (3150)
Elongation	ASTM D638	%	500
Hardness	ASTM D2240	Shore D	55
Abrasion resistance	ASTM D1044	mg	30
Volume Resistivity	ASTM D257	ohm-cm	10 ¹⁸
Dielectric Voltage Brkdw	ASTM D149	kV/mm	39
Sleeve	Test Standard	Unit	GTS-80
Impact	EN 12068	J	>15
Indentation	EN 12068	mm	1.0* (pass)
Peel Adhesion	ASTM D1000	N/cm (pli)	45 (26)
Peel Adhesion	EN 12068	N/cm	38
Cathodic Disbondment	ASTM G8	mm rad	< 3
Cathodic Disbondment	EN 12068	mm rad	< 15
Water Absorption	ASTM D570	%	0.05
Low Temp. Flexibility	ASTM D2671-C	°C (°F)	>-26 (-18)
Fully Recovered T Thickness		mm (mils)	2.0 (80)
Fully Recovered L Thickness		mm (mils)	2.3 (90)
Fully Recovered S Thickness		mm (mils)	3.0 (121)

* mm remaining

How To Order¹:

Dimensions & Ordering Info	GTS-80 900-450 BK/L			Ordering Options - Global Transmission Sleeve		
	T	L	S	BK-Black		
Thickness	300, 450, 600, 900mm (12", 18", 24", 36")					
Colour	BK-Black					
Sleeve Width	300, 450, 600, 900mm (12", 18", 24", 36")					
Pipe Size	55-500 mm (2-60")		55 - 3048 mm (2" - 120")			
Primer	Canusa "E" Epoxy					
Adhesive (min. thickness as supplied)	1.0 mm (40 mils)	1.3 mm (50 mils)	1.6 mm (65 mils)			
Backing (min. thickness as supplied)	0.76 mm (30 mils)	0.76 mm (30 mils)	1.1 mm (43 mils)			
Configuration	GTS-80 - 80°C (176°F)					



Min. Sleeve Width =
Bare Steel Dimension + 50 mm (2")
on each side of the pipe joint.

The above represent standard Wrapid Sleeve™ ordering options. Consult your Canusa representative for any unique project requirements.

¹ For CanusaWrap™ bulk rolls, consult you Canusa representative. GTS-80 requires CLH closures.



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