Product Data Sheet



GTS-80

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.

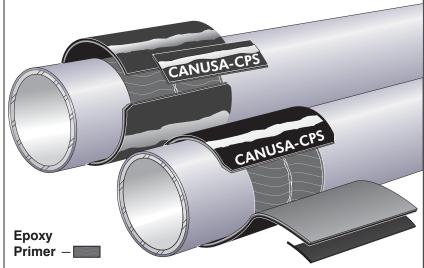
Features & Benefits

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 μ m (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. Girth-weld protection of elevated operating temperature pipelines



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 preheat means less time heating; epoxy on the steel only, means less time applying the epoxy; and the preattached closure means less time handling, positioning and installing the sleeve. The overall system minimizes installation time and labour costs while promoting high production rates.



Product Selection Guide

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

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

Typical Product Properties

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ve		Test Standard	Unit	GTS-80
iesi.	Softening point	ASTM E28	°C (°F)	124 (255)
Adhesive	Lap shear	EN 12068	N/cm ²	365
	Specific gravity	ASTM D792		0.94
	Tensile strength	ASTM D638	MPa (psi)	22 (3150)
	Elongation	ASTM D638	%	500
	Hardness	ASTM D2240	Shore D	55
D	Abrasion resistance	ASTM D1044	mg	30
kir	Volume Resistivity	ASTM D257	ohm-cm	10 ¹⁸
Backing	Dielectric Voltage Brkdwn	ASTM D149	kV/mm	39
	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
e	Water Absorption	ASTM D570	%	0.05
	Low Temp. Flexibility	ASTM D2671-C	°C (°F)	>-26 (-18)
Sleeve	Fully Recovered T Thicknes		mm (mils)	2.0 (80)
Sle	Fully Recovered L Thicknes		mm (mils)	2.3 (90)
	Fully Recovered S Thickness		mm (mils)	3.0 (121)

Epoxy Primer Information						
GTS-80 (3-layer) require epoxy on the cut-back area and 10 mm (0.5") onto the adjacent pipe coating.						
Epoxy Primer Kits This kit includes measured quantities of base resin and cure, a stirring stick, applicator pad or roller and gloves. The kit contains	Typical Primer Coverage Joints per US gallon assuming 300mm (12") total cutback and 150µm (0.006") coating thickness					
	Pipe o mm	liamet in	er joints/ US gallon			
sufficient primer for up to 1 square meter (10	170	6.6	130			
sq. ft) of coverage. For	230	8.6	97			
example: 1 kit is sufficient for a 915mm	280	10¾	78			
(36") diameter pipe with a 300mm (12") total cutback.	315	12¾	70			
	400	16	60			
	450	18	55			
Bulk Epoxy Primer Bulk epoxy components	500	20	43			
must be ordered separately. The mixing	610	24	35			
ratio for the E primer is 4	760	30	28			
parts base, 1 part cure by volume, and 6.3	915	36	23			
parts base, 1 part cure by weight. Pumps are	1060	42	20			
available to facilitate	1220	48	18			
mixing operation. Average coverage for	1422	56	15			
bulk primers is 20 square meters per U.S.	1525	60	14			
gallon, (220 sq. ft / U.S.						
Epoxy Properties						
Pot life @ 23°C (73°F) 20 minutes Typical epoxy coated thickness 100-150µm(4 - 6 mils)						

Shelf Life @ 23°C, when properly stored 3 years

* mm remaining

How To Order¹:

nfo	GTS-80 900-450 BK/L	Ordering Options - Global Transmission Sleeve		sleeve width	
	Thickness	т	L	s	Widu
Ordering	Colour▶	BK- Black		CANUSA-CPS	
Pe	Sleeve Width▶	300, 450, 600, 900mm (12", 18", 24", 36")		CANOL	
త	Pipe Size▶	55-500 mm (2-60") 55 - 3048 mm (2" - 120")		pipe	
Dimensions	Primer	Canusa "E" Epoxy		size	
insi	Adhesive (min. thickness as supplied)	1.0 mm (40 mils)	1.3 mm (50 mils)	1.6 mm (65 mils)	
me	Backing (min. thickness as supplied)►	0.76 mm (30 mils)	0.76 mm (30 mils)	1.1 mm (43 mils)	Min. Sleeve Width = Bare Steel Dimension + 50 mm (2")
ā	Configuration		GTS-80 - 80°C (176°F)		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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Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the installation guide 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 guide supersedes all previous installation guide and is subject to change without notice. This installation guide supersedes all previous installation guides on this product. E&OE