

GTS-65 Global Transmission Sleeve

Reliable Protection. Anywhere on the Globe.

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

The GTS-65 system provides superior corrosion protection and excellent bonding on pipelines operating onshore up to 65°C (150°F). GTS-65 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 preheats are required and superior bonding to PE, PP and FBE surfaces is achieved.

Features & Benefits

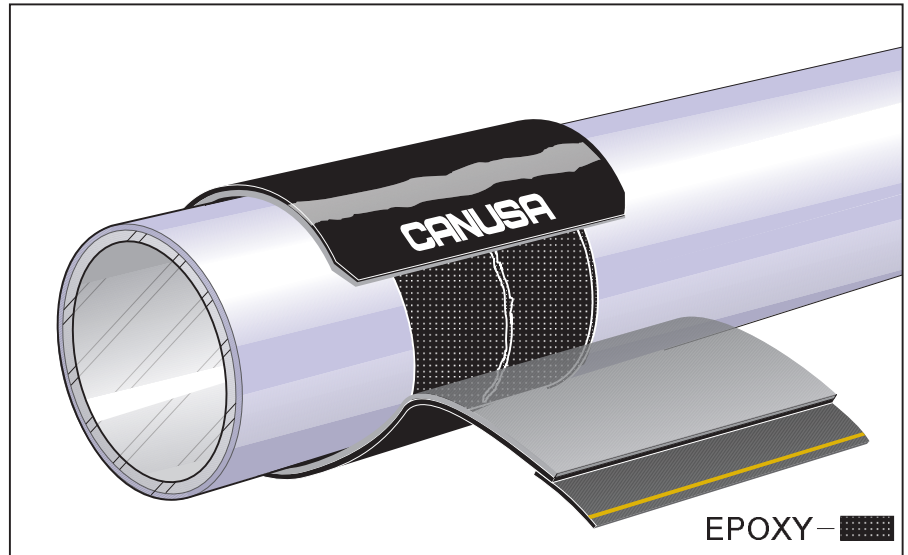
Superior Force Cured Epoxy Method.

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 6 mil thickness for maximum corrosion protection.

Unique Adhesive Technology.

Canusa's unique adhesive technology allows for lower installation pre-heats 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 is registered to **ISO 9002-1994**.



Flexible Installation.

GTS-65 can be used as a 2-layer or 3-layer sleeve system at the same low pre-heat. For added flexibility, CanusaWrap bulk rolls are also available. Consult your Canusa representative to review your specific project requirements.

Long Term Corrosion Protection.

GTS-65 provides superior corrosion protection because of the high performance system approach of epoxy primer and sleeve. 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.

Available Configurations

<p>Wrapid Sleeve™ (K)</p>	✓
<p>CanusaWrap™ (W)</p>	✓
<p>CanusaTube™ (P)</p>	
<p>Wrapid Tape™ (H)</p>	

Shrink Ratio

<p>Standard</p>	✓
<p>High Shrink</p>	

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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 Heavy Duty (L) Sleeves.

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

Sleeve Operating Characteristics	Celsius	Fahrenheit	GTS-65
	130°	266°	
	110°	230°	
	90°	194°	
	70°	158°	
	50°	122°	
30°	86°		
Pipeline Operating Temp.	°C (°F)	65 (150)	
Minimum Installation Temp.	°C (°F)	90 (195)	
Resistance to Circumferential Forces		excellent	
Resistance to Soil Stress		excellent	
Resistance to Axial Pipe Movement		excellent	
Main Line Coating Compatibility		FBE, PE, PP	

Typical Product Properties

Adhesive	Test Standard	Unit	GTS-65
Softening point	ASTM E28	°C (°F)	94 (201)
Lap shear	DIN 30 672	N/cm ² (psi)	245 (350)
Specific gravity	ASTM D792		0.93
Tensile strength	ASTM D638	MPa (psi)	24 (3480)
Elongation	ASTM D638	%	700
Hardness	ASTM D2240	Shore D	50
Abrasion resistance	ASTM D1044	mg	35
Volume Resistivity	ASTM D257	ohm-cm	10 ¹⁷
Dielectric Voltage Brkdw	ASTM D149	kV/mm	27
Impact	DIN 30 672	class C	pass
Indentation	DIN 30 672	class C	pass
Peel	ASTM D1000	N/cm (pli)	120 (70) **
Peel	DIN 30 672	N/cm (pli)	86 (50) **
Cathodic Disbondment	ASTM G8	mm rad	10
Water Absorption	ASTM D570	%	0.05
Low Temp. Flexibility	ASTM D2671-C	°C (°F)	> -26 (-18)
Fully Recovered T Thickness		mm (mils)	1.8 (71)
Fully Recovered L Thickness		mm (mils)	2.5 (99)
Fully Recovered S Thickness		mm (mils)	3.4 (134)

**backing elongation during peeling due to superior bond strength

Epoxy Primer Information

GTS-65 requires 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 sufficient primer for up to 1 square meter (10 sq. ft) of coverage. For example: 1 kit is sufficient for a 915mm (36") diameter pipe with a 300mm (12") total cutback.

Typical Primer Coverage

Joints per US gallon assuming 300mm (12") total cutback

Pipe diameter	joints/US gallon
mm	in

170	6.6	126
230	8.6	93
280	10¾	76
315	12¾	68
400	16	53
450	18	47
500	20	43
610	24	35
760	30	28
915	36	23
1060	42	20
1220	48	17
1422	56	15
1525	60	14

Bulk Epoxy Primer

Bulk epoxy components must be ordered separately. The mixing ratio for the E primer is 4 parts base, 1 part cure by volume, and 6.3 parts base, 1 part cure by weight. Pumps are available to facilitate mixing operation. Average coverage for bulk primers is 20 square meters per U.S. gallon, (220 sq. ft./U.S. gallon).

Epoxy Properties

Pot life @ 23°C (73°F)	20 minutes
Typical epoxy coated thickness	4 - 6 mils
Shelf Life @ 23°C, out of sunlight	2 years

How To Order:

GTS-65 915 430 BK

Colour

Sleeve Width

Pipe Size

Primer

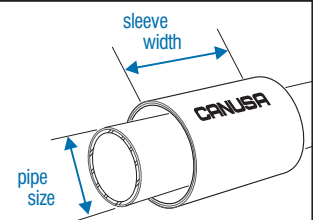
Adhesive (thickness as supplied)

Backing (thickness as supplied)

Configuration

Ordering Options - Global Transmission Sleeve

T Thickness	L Thickness	S Thickness
BK-Black		
300mm, 430mm, 610mm, 860mm (12", 17", 24", 34')		
55-500mm (2"-20")	55 - 1525 mm (2" - 60")	
Canusa "E" Epoxy		
0.8 mm (32 mils)	1.1 mm (45 mils)	1.5 mm (60 mils)
0.63 mm (25mils)	0.9 mm (36mils)	1.1 mm (43mils)
GTS-65 - Global Transmission Sleeve		



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

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



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