

# GTS-PP-100

## 3LPP Hybrid Coating System

The GTS-PP-100 system is a hybrid system combining a Polypropylene backing with a thermoplastic hybrid adhesive. This combination results in a product with the mechanical protection of polypropylene with the ease of installation of a traditional adhesive. This also allows for a lower preheat temperature and faster application than found with traditional 3LPP systems.

### Superior Mechanical Protection

- The GTS-PP-100 sleeve has superior impact and shear resistance by virtue of its polypropylene backing. The sleeve is engineered for use in offshore applications where mechanical resistance is required and the rapid cooling of polypropylene allows better resistance to offshore laying rollers

### Unique Adhesive Technology

- Allows for lower installation pre-heat temperatures and superior bonding to PP, PE and FBE coatings
- The adhesive has been formulated to bond directly to the mainline coating; epoxy is applied to the steel only

### Flexible installation

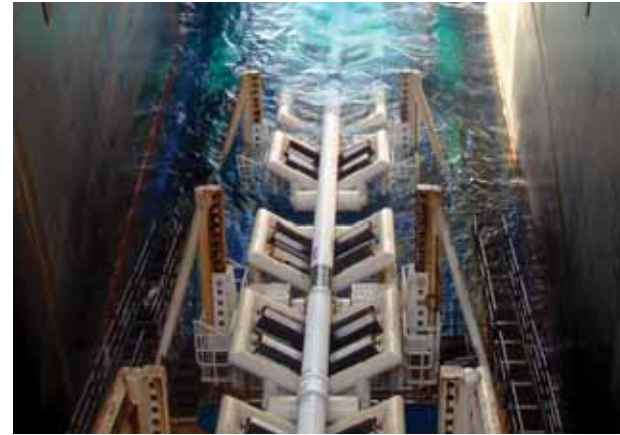
- GTS-PP-100 can be used as either a 2-layer or a 3-layer sleeve system with the same low preheat temperature
- For added flexibility, the sleeve can be supplied as either pre-cut to the required pipe sizes or as bulk rolls.

### Long Term Corrosion Protection

- 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.

### Saves time and Money

- Lower pre-heat means less time heating and a faster installation.



### Applications



Oil & Gas



Offshore, J & S Lay



High Abrasion Environments



High Moisture Environments



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Sleeve Operating Characteristics	Test Method	Typical Values	
Pipeline Operating Temp.		Up to 100°C (212°F)*	
Minimum Installation Temp.		90°C (194°F)	
Main Line Coating Compatibility		PP, PE, FBE	
Rapid Quenching Ability		Excellent	
Adhesive Properties			
Softening Point	ASTM E28	124°C	
Lap Shear @ 23°C	EN 12068	30 N/cm <sup>2</sup>	
Lap Shear @ 50°C	EN 12068	2.75 N/cm <sup>2</sup>	
Backing Properties			
Tensile Strength	ASTM D638	28 MPa	
Elongation	ASTM D638	425%	
Hardness	ASTM D2240	65 Shore D	
Volume Resistivity	ASTM D257	2 x 10 <sup>17</sup> ohm-cm	
Sleeve Properties			
Adhesion Strength @ 23°C	EN 12068	50 N/cm	
Indentation Resistance	EN 12068	Pass	
Impact Resistance	NFA 49-711	10 J/mm	
Cathodic Disbondment @ 23°C, 28 days	ASTM G8	< 10 mm	
Cathodic Disbondment @ 23°C, 28 days (with epoxy)	ASTM G8	< 3 mm	
Bending Resistance	GBE/CW6	Pass	
Thickness	T	L	S
Backing (nominal thickness as supplied)	0.9 mm (0.035")	0.9 mm (0.035")	1.1 mm (0.045")
Adhesive (nominal thickness as supplied)	0.9 mm (0.035")	1.4 mm (0.055")	1.5 mm (0.060")

\* Actual temperature rating is dependant on specific project requirements and conditions. Please consult your local Canusa representative.

Epoxy usage can be referenced on the Liquid Epoxy, Type E Product Data Sheet.

Since 1967, Canusa-CPS has been a leading developer and manufacturer of specialty pipeline coatings for the sealing and corrosion protection of pipeline joints and other substrates. Canusa-CPS high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate many specific project applications.

The product information shown here is intended as a guide for standard products.

Consult your Canusa representative for specific projects or unique applications.



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**Quality Management  
system registered to  
ISO 9001**

Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the product 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 data sheet is to be used as a guide and is subject to change without notice. This data sheet supersedes all previous data sheets on this product. E&OE

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