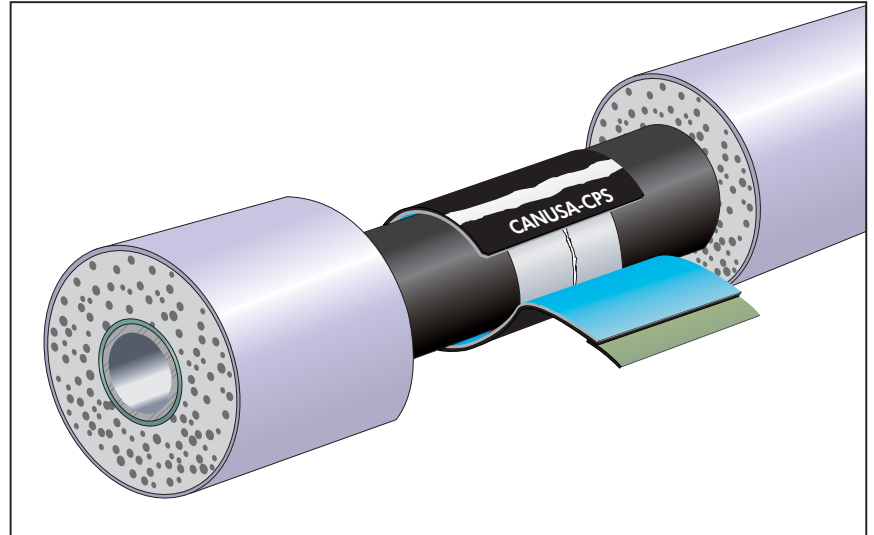


GTS-PP-VE

Visco-Elastic Adhesive Based Protection for Subsea Pipeline Field Joints
Wraparound Heat-Recoverable Corrosion Protection System

For more than 35 years, 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.



Product Description

The GTS-PP-VE system provides excellent long-term adhesion and superior mechanical protection performance for subsea pipelines coated with a wide range of anti-corrosion mainline coatings.

GTS-PP-VE is a wraparound corrosion protective product consisting of a high performance polypropylene backing and a visco-elastic adhesive.

This combination results in quick installation cycle times, excellent adhesion properties and superior mechanical resistance properties. The low preheat temperature and wire brush (St 2) surface preparation requirements allow for a consistent and quick installation.

Features & Benefits

Unique Adhesive Technology

The inherent properties and composition of the visco-elastic adhesive allows for a consistent and high-strength bond to the cutback and mainline coating with low preheat temperatures. The adhesive's excellent performance against cathodic disbondment and self healing characteristics provide assurance that minor damage or holidays in the coating will resist growth. The user-friendly aspect of the material allows for consistent results in adverse conditions commonly encountered in subsea pipeline construction environments.

Mechanical Resistance

The polypropylene backing layer of the GTS-PP-VE is fabricated using the equivalent raw materials as used for extruded

polypropylene mainline coatings. As a result, the mechanical properties achieved using this system achieve excellent resistance to impact, abrasion and excellent hardness.

Supplemental Mechanical Protection and Infill Compatibility

Depending on the project field joint specification for concrete weight coated pipe, GTS-PP-VE may be used with rock shield products, hot mastic pour, polyurethane foam or other infill systems to provide effective long-term corrosion protection. GTS-PP-VE is resistant to hot mastic pour systems and meet the requirements of the Drum Skin Test for high temperature effects. Contact Canusa relative to the use of Wrapid Shield for supplemental mechanical protection or other infill systems.

Rapid & Reliable Installation

GTS-PP-VE is designed specifically for use in offshore environments, where a reliable installation procedure achieved in the most aggressive cycle time is critical. Time is saved in several areas when using GTS-PP-VE on laybarge operations in combination with infill systems, or high impact polyethylene mesh materials lower preheat temperature equates to lower installation times, single wrap configuration eliminates the requirements for multiple layers, and the pre-attached closure seal means less time is used handling, positioning and installing the joint protection materials.

Applications



Oil & Gas



Offshore Pipelines



Infill Systems



Girth-Weld Joints



Polypropylene



S-Lay

Configurations



Wrapid Sleeve™



CanusaWrap™



PP Backing
& Visco-Elastic Adhesive

Temperature Range



up to 110°C

Product Selection Guide

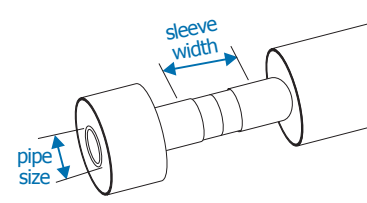
Sleeve Operating Characteristics	Celsius		GTS-PP-VE	
	°C	°C		
Offshore Pipeline Operating Temperature	110	110		
Minimum Installation Temperature	30	30		
Resistance to Impact			excellent	
Resistance to Hot Infill Pour			excellent	
Compatibility to Hot Marine Mastic			excellent	
Compatibility to Polyurethane Foam			excellent	
Recommended Surface Preparation			St 2 (min)	
Main Line Coating Compatibility			PE, PP, FBE, AE & CTE	

Typical Product Properties

	Test Standard	Unit	GTS-PP-VE	
Adhesive	Lap Shear	EN 12068	N/mm ²	0.02
	Water Absorption	ASTM D570	%	<0.05
Backing	Tensile Strength @ 23°C (73°F)	ASTM D638	MPa	28
	Elongation at Break @ 23°C (73°F)	ASTM D638	%	425
	Hardness	ASTM D2240	Shore D	60
	Water Absorption @ 23°C (73°F)	ASTM D570	%	<0.2
	Volume Resistivity	ASTM D257	ohm.cm	2 x 10 ¹⁷
	Dielectric Breakdown Voltage	ASTM D149	kV/mm	> 25
Sleeve	Impact	EN 12068	J	15
	Indentation	EN 12068	pass/fail	>0.60 mm remaining (pass)
	Peel Strength	EN 12068	N/mm	>0.5
	Cathodic Disbondment	ASTM G8/EN 12068	mm rad	<2
	Low Temp. Flexibility	ASTM D2671	°C	-30
	Hot Water Immersion @ 65°C	GBE/CW6	pass/fail	pass - no disbondment
	Bending Resistance	GBE/CW6	pass/fail	pass

How To Order:

Dimensions & Ordering Info	GTS-PP-VE 915-600 BK		Standard Ordering Options - GTS-PP-VE	
	Adhesive (nom. thickness as supplied)	Backing (nom. thickness as supplied)	Colour	Sleeve Width
	2.0 mm (80 mils)	1.0 mm (40 mils)	BK - (Black)	300, 450, 600 mm (12", 18", 24")
				115 - 1520 mm (4" - 60")
				2.0 mm (80 mils)
				1.0 mm (40 mils)
				GTS-PP-VE



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

* Non-standard sleeve widths are available from 250mm up to 900mm

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