

# **GTS-PP II**

## **Fused 3LPP Field Applied Coating 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**

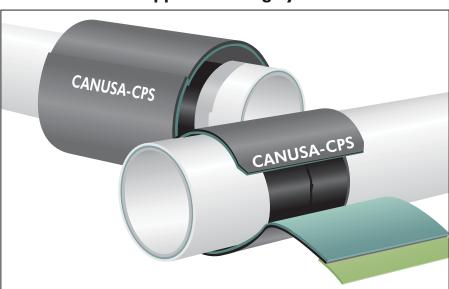
A key offering within the GTS-PP product family, GTS-PP II uses ShawCor's unique, and patented, cross-linked polypropylene outer layer, along with a proprietary rapid-activation polypropylene copolymer adhesive and advanced liquid epoxy layer to deliver protection that far exceeds minimum industry standards, such as ISO, while offering significant installation advantages over the highest performing PP systems, that require higher installation temperatures.

#### Features & Benefits

## Lower Temperature 3LPP Coating Technology

GTS-PP II provides 3LPP protection with the following components:

- Polypropylene Top Coat offering the hardness, mechanical protection and resistance to moisture absorption typically required for pipelines utilizing polypropylene coatings
- High Temperature Epoxy on the Steel providing proven resistance to corrosion and to cathodic disbondment while allowing for relatively low installation temperatures when compared to other systems.
- Rapid-Activation PP Copolymer Adhesive bonding the polypropylene top coat to the epoxy layer and fusing to the 3LPP factory-applied coating where the joint coating overlaps with the lowest possible installation temperatures.



## Fuses with the Lowest Installation Temperatures

GTS-PP II fuses to the 3LPP factory-applied coating while requiring the lowest installation temperatures in the industry. The system can be installed directly and very efficiently by pipeline contractors in an efficient and controlled manner, using uniform induction heating technology. GTS-PP II is also available in elevated thickness and with engineered features, such as the *Patented Reduced Edge Thickness Design*, which promotes a completely uniform and fused system and which further minimizes installation time by reducing unneeded extra coating thickness at the overlap area.

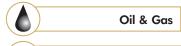
#### **Available with Full Automation**

This advanced coating technology is also fully compatible with Canusa-CPS' patented innovation, the IntelliCOAT system, which automates the installation of heat shrinkable pre-extruded coating systems, such as GTS-PP II. When combined, these technologies deliver consistent in-field application and full repeatability with improved safety and can even offer significant productivity and cycle time improvements.

#### **Patented Technology**

GTS-PP II's cross-linked PP technology and Reduced Edge Thickness Design are patented in North America and throughout Europe and the rest of the world.

## **Applications**









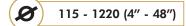
## **Configurations**







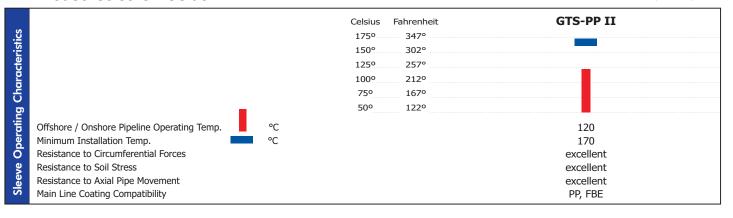
## Pipe Sizes



## **Temperature Range**



<sup>\*</sup> Actual Temperature rating is dependant on specific project requirements and conditions. Please consult your local Canusa representative.



### **Typical Product Properties**

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		Test Standard	Unit	GTS-PP II
Adhesive	Density	ASTM D792	g/cm³	0.93
	Melting Point	ASTM D3418	°C	> 140
	Lap Shear @ 23°C (73°F)	EN 12068	N/cm <sup>2</sup>	> 500
	Lap Shear @ 100°C (212°F)	EN 12068	N/cm²	> 100
Backing	Density	ASTM D792	g/cm³	0.93
	Tensile Strength @ 23°C (73°F)	ASTM D638	Мра	28
	Elongation at Break @ 23°C (73°F)	ASTM D638	%	425
	Hardness	ASTM D2240	Shore D	65
	Water Absorption @ 23°C (73°F), 24 hours	ASTM D570	%	0.2
	Volume Resistivity	ASTM D257	ohm.cm	2 x 10 <sup>17</sup>
	Low Temperature Brittleness @ -40°C (-40°F)	ASTM D746	-	pass
Sleeve	Peel Strength @ 23°C (73°F)	NFA 49-711	N/cm	> 150
	Peel Strength @ 100°C (212°F)	NFA 49-711	N/cm	> 70
	Peel Strength @ 120°C (248°F)	NFA 49-711	N/cm	> 25
	Impact	NFA 49-711	J/mm	10
	Holiday Detection	NFA 49-711	kV	25
	Indentation @ 110°C (230°F)	DIN 30678	mm	0.4
	Cathodic Disbondment @ 23°C (73°F), 28 days	ASTM G8	mm	< 3
	Cathodic Disbondment @ 120°C (248°F) 28 days	ASTM G42*	mm	< 3
	Hot Water Immersion @ 95°C (203°F), 28 days	CSA	Rating	1
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<sup>\*</sup> ASTM G42 Test Method modified to suit testing @ 120°C (248°F)

#### **How To Order:**

