

GTS-PP

Factory Grade™ 3LPP Field-Applied Coating System

Launched In 2000, The GTS-PP 3LPP Coating System Remains The World's Leading Joint Coating For 3LPP Coated Pipelines.

Its patented design uses Factory Grade™ polypropylene materials to deliver equivalent performance to, and fusion to, the factory applied 3LPP coating with low installation temperatures and a proven and controlled application process.

Factory Grade™ 3LPP Coating Technology

- Polypropylene (PP) top coat delivers mechanical protection and resistance to moisture absorption critical for high temperature and deepwater pipelines
- High temperature liquid epoxy or fusion bonded on steel provides Factory Grade™ resistance to cathodic disbondment and allows for low installation temperatures
- PP copolymer layer bonds the PP top coat to the epoxy and fuses to the factory-applied coating to eliminate the possibility of moisture ingress

Proven Compatibility and Fusion

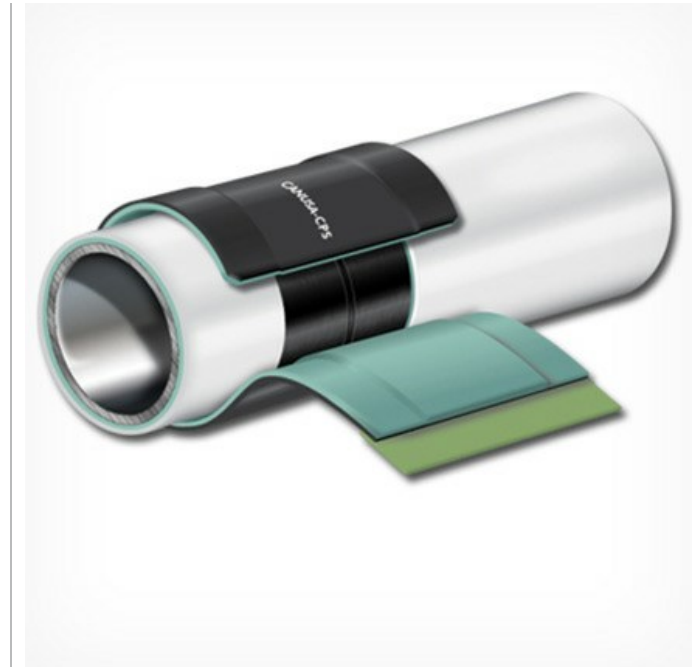
- Proven to provide consistent fusion to the factory-applied 3LPP coating with efficient installation

Easy to Install with Process Control

- Factory Grade™ performance achieved with low installation temperatures using uniform induction pre-heating technology
- Can be installed directly by contractors, supported by Canusa-CPS' industry leading field service team
- Can be combined with the patented IntelliCOAT™ systems, providing a fully automated, efficient and safe installation

Engineered for Maximum Efficiency

- Patented Reduced Edge Thickness design enhances installation efficiency and allows for elevated thickness applications
- Automated tube welding eliminates overlap/closure system typical of traditional sleeve systems, allowing for uniform thickness and cycle time reduction



SLEEVE OPERATING CHARACTERISTICS	TEST METHOD	TYPICAL VALUES
Pipeline Operating Temp		Up to 140°C (284°F)*

SLEEVE OPERATING CHARACTERISTICS	TEST METHOD	TYPICAL VALUES
Minimum Installation Temp.		175°C (347°F)
Main Line Coating Compatibility		3LPP, FBE
PP Copolymer Properties		
Melting Point	ASTM D3418	147°C
Lap Shear @ 23°C	EN 12068	> 600 N/cm ²
Lap Shear @ 110°C	EN 12068	> 100 N/cm ²
PP Top Coat (Backing) Properties		
Tensile Strength	ASTM D638	28 MPa
Elongation	ASTM D638	> 400%
Hardness	ASTM D2240	65 Shore D
Volume Resistivity	ASTM D257	2 x 10 ¹⁷ ohm-cm
GTs-PP 3LPP Coating System Properties		
Impact Resistance	ISO 21809-1	10 J/mm
Indentation Resistance @ 110°C	DIN 30678	0.4 mm
Adhesion Strength @ 23°C	ISO 21809-1	> 250N/cm
Adhesion Strength @ 110°C	ISO 21809-1	> 60N/cm
Cathodic Disbondment @ 23°C, 28 days	ISO 21809-1	< 3 mm

SLEEVE OPERATING CHARACTERISTICS	TEST METHOD	TYPICAL VALUES
Cathodic Disbondment @ 95°C, 28 days	ISO 21809-1	< 7 mm
Hot Water Immersion @ 95°C, 28 days	ISO 21809-1	pass, no disbondment
Total System Thickness	Supplied	Typical Applied
Standard Product	2.8 mm	> 3.0 mm

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