

CanusaCoat Copolymers

Chemically modified PP and PE copolymers

CanusaCoat Copolymers are specially engineered to provide superior bonding of the pipe substrate to the top coat, resulting in a robust mainline coating system. The copolymers have been formulated to combine high shear strength, lower installation temperature and long-term corrosion protection. In order to facilitate convenient processing of the material for extrusion, the copolymers are supplied in pellet form.

CanusaCoat Copolymer Technology

- CanusaCoat PP-1 and PE-1 copolymers bond the polypropylene (PP) top coat and polyethylene (PE) top coat, respectively, to the pipe substrate and as a result eliminates the possibility of moisture ingress
- High shear strength of the copolymers affirms superior structural integrity and provides robust resistance to pipe movements and the other mechanical forces associated with pipe lay and pipeline operation

Consistent End-to-End Coating Performance

• A true 3-layer coating system with copolymer applied onto pre-cured epoxy layer, followed by top coat application, for a guaranteed corrosion protection layer

Easy to Install with Process Control

- High performance is achieved with remarkably low installation temperatures for added repeatability
- Can be installed directly by contractors, supported by Canusa-CPS' industry leading field service team, using uniform and controlled induction pre-heating technology and methods of side extrusion



Applications



Onshore Pipelines



Offshore, Reel, J & S Lay



High Moisture Environments



Topcoat

canusacps.com

PRODUCT DATA SHEET

CanusaCoat Copolymers

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Operating Characteristics	Test Method	PE-1 Copolymer	PP-1 Copolymer
Pipeline Operating Temp.		Up to 100°C (212°F)*	Up to 140°C (284°F)*
Top Coat Compatibility		HDPE	PP
Recommended Basecoat		FBE or Liquid Epoxy	FBE or Liquid Epoxy
CanusaCoat Properties			
Density		0.94-0.95 g/cm ³	0.92-0.93 g/cm ³
Softening Point	ASTM E28	> 150°C	> 150°C
Melt Flow Index (MFI)	ASTM D1238	1.2 g/10 min. @ 130°C, 2.16 kg	6.6 g/10 min. @ 190°C, 2.16 kg
Lap Shear	EN 12068	> 500 N/cm ² @ 23°C > 100 N/cm ² @ 80°C	> 600 N/cm ² @ 23°C > 100 N/cm ² @ 110°C
CanusaCoat with Topcoat Properties			
Adhesion Strength @ 23°C**	ISO 21809-1	> 150 N/cm	> 250 N/cm
Adhesion Strength @ Tmax**	ISO 21809-1	> 30 N/cm @ 80°C	> 60 N/cm @ 110°C
Cathodic Disbondment @ 23°C, 28 days	ISO 21809-1	< 3 mm	< 3 mm
Cathodic Disbondment @ 95℃, 28 days	ISO 21809-1	< 9 mm	< 7 mm
Hot Water Immersion @ 95°C, 28 days	ISO 21809-1	Pass, No disbondment	Pass, No disbondment

* Actual temperature rating is dependant on specific project requirements and conditions. Please consult your local Canusa representative. ** Based on 1.1 mm CanusaCoat™ copolymer and 1.5 mm topcoat thicknesses. The product information shown here is intended as a guide for standard products.

Consult your Canusa representative for specific projects or unique applications at info@canusacps.com.



Western Hemisphere

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Еигоре

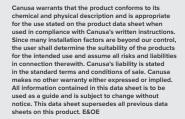
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Middle East

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Quality Management system registered to ISO 9001

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.



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Corrosion Protection and Sealing