

## CRP-PP

Mainline coating repair products for corrosion protection

Canusa-CPS is a leading manufacturer of specialty pipeline coatings which, for over 30 years, have been used for sealing and corrosion protection of pipeline joints and other substrates. Canusa high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate your specific project applications.

### Product Description

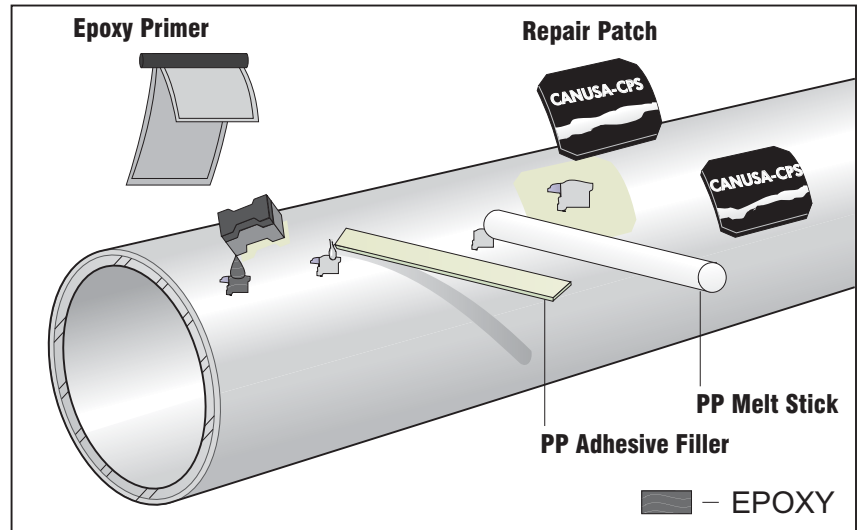
Canusa's repair products for polypropylene-coated pipelines provide excellent adhesion and shear resistance at high pipeline operating temperatures. The polypropylene repair patch has been uniquely designed to be fully compatible with the polypropylene pipe line coating. The Adhesive Filler is also made from polypropylene for maximum compatibility. These aspects ensure compatibility throughout the range of Canusa products offered.

### Features & Benefits

All of Canusa's Pipeline Repair Products offer flexibility in installation, exhibit excellent adhesion to steel and are fully compatible with the pipeline coating. Canusa has also developed a high temperature resistant epoxy, which is used in combination with the polypropylene Adhesive Filler and the repair patch for minor and major coating repairs.

#### Coating Repair Patch (CRP-PP)

CRP-PP is polypropylene based and is designed to be fully compatible with the polypropylene pipeline coating. The patches are supplied pre-cut for easy handling in the field. The installed patch provides a barrier to moisture and corrosion and is resistant to abrasion and shear forces during pipeline construction and while in service.



#### PP Melt Stick

PP Melt Stick is used to fill larger damaged areas in the coating prior to patch installation or as a repair for minor coating damage. Once installed, the Melt Stick provides excellent resistance to corrosion, abrasion and shear during pipeline construction and while in service.

#### PP Adhesive Filler





PP Adhesive Filler is supplied as a filler material when repairing the GTS-PP Heat Shrink Sleeve System. Typical Application is to fill the void left during Peel Testing prior to CRP-PP Repair Patch Application. It can also be used to repair the Mainline Coating.

#### Epoxy/Primer





Canusa's Epoxy Primer acts as an initial corrosion protection layer for major repairs when the damaged area extends to the steel surface. Its unique force cure technology ensures consistent thickness prior to installation of the Adhesive Filler material and repair patch.

Note: For damage greater than 150mm x 150mm, a new sleeve is recommended.

### Applications

-  Oil & Gas
-  High Temp
-  Polypropylene
-  Repair & Rehab

### Configurations

-  Patch
-  PP Melt Stick
-  Adhesive Filler
-  Epoxy

### Pipe Sizes

-  All Sizes

### Temperature Range

-  up to 140°C (284°F)\*

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

## Product Selection Guide

Sleeve Operating Characteristics	Celsius		Fahrenheit		CRP-PP, PP Adhesive Filler & PP Melt Stick	
	Pipeline Operating Temp.	200°	392°			
	Minimum Installation Temp.	175°	347°			
	Resistance to Circumferential Forces	125°	257°			
	Resistance to Soil Stress	100°	212°			
	Resistance to Axial Pipe Movement	75°	167°			
Main Line Coating Compatibility	50°	122°				
						Up to 140 (284) <sup>1</sup>
						140 (284) <sup>2</sup>
						excellent
						excellent
						excellent
						PP

The product selection chart shown here is intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

<sup>1</sup> Actual temperature rating is dependant on specific project requirements and conditions. Please consult your local Canusa representative.  
<sup>2</sup> Canusa-CPS recommended installation temperature.

## Typical Product Properties

	Test Standard	Unit	CRP-PP	
Adhesive	Density	ASTM D792	g/cm <sup>3</sup>	0.93
	Melting Point	ASTM D3418	°C (°F)	147 (297)
	Lap Shear @ 23°C (73°F)	DIN 30 672	N/cm <sup>2</sup>	> 500
	Lap Shear @ 100°C (212°F)	DIN 30 672	N/cm <sup>2</sup>	> 100
Backing	Density	ASTM D792	g/cm <sup>3</sup>	0.93
	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	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
Patch	Peel Strength @ 100°C (212°F)	NF A 49-711	N/cm	70
	Impact	NF A 49-711	J/mm	10
	Holiday Detection	NF A 49-711	kV	25
	Cathodic Disbondment* @ 95°C (203°F), 28 days	ASTM G42	mm	< 3
	Hot Water Immersion* @ 95°C (203°F), 28 days	CSA	Rating	1

\* includes installed patch with Canusa epoxy primer \*\* Hot Air Tool required for installation.

## How To Order:

CRP-PP-B 150-15 BK	Polypropylene Canusa Repair Patch	PP Adhesive Filler 20-8-300 GR	Polypropylene Adhesive Filler
Colour ▶	BK- Black	Colour ▶	Green
Length of Piece ▶	15m	Length ▶	300mm (11.8")
Width of Piece ▶	150mm (6")	Thickness ▶	8mm (0.3")
Product Designation ▶	CRP-PP-B Coating Repair Patch Roll	Width ▶	20mm (0.8")
		Product Designation ▶	PP Adhesive Filler

P Epoxy/Primer BP 170mL	Epoxy/Primer	PP Melt Stick 20-300 WT	Polypropylene Melt Stick
Total Mixed Volume ▶	170mL (0.045 Gal)	Colour ▶	WT: White, BK: Black
Package Type ▶	BP- Bubble Pack	Length ▶	300mm (11.8")
Product Designation ▶	P Epoxy/Primer	Width ▶	20mm (0.8")
		Product Designation ▶	PP Adhesive Filler



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### Canada

CANUSA-CPS  
a division of SHAWCOR LTD.  
25 Bethridge Road  
Rexdale, Ontario  
M9W 1M7,  
Canada  
Tel: +1 (416) 743-7111  
Fax: +1 (416) 743-5927

### U.S.A./Latin America

CANUSA-CPS  
a division of SHAWCOR INC.  
2408 Timberloch Place  
Building C-8  
The Woodlands, Texas  
77380, U.S.A.  
Tel: +1 (281) 367-8866  
Fax: +1 (281) 367-4304

### Europe/Middle East

CANUSA-SYSTEMS  
a division of SHAWCOR UK LIMITED  
Unit 3, Sterling Park  
Gatwick Road  
Crawley, West Sussex  
England RH10 9QT  
Tel: +44 (1293) 541254  
Fax: +44 (1293) 541777

[www.canusacps.com](http://www.canusacps.com)

### Asia/Pacific

CANUSA-CPS  
a division of SHAWCOR LTD.  
#05-31, Blk 52, Frontier  
Ubi Avenue 3  
Singapore  
408867  
Tel: +65-6749-8918  
Fax: +65-6749-8919

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