

# Factory Grade PP Repair Products

## Polypropylene-based coating repair products for corrosion protection

Canusa's Factory Grade PP Repair Products for factory-applied 3LPP coating 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 pipeline coating. The melt stick and the adhesive filler are also made from polypropylene for maximum compatibility. These aspects ensure compatibility throughout the range of Canusa products offered.

### Coating Repair Patch (CRP-PP)

- Delivers mechanical protection and resistance to moisture absorption by fusing to the factory-applied coating that surrounds the damaged area.
- Provides an excellent barrier to corrosion and is resistant to abrasion and shear forces during pipeline construction and while in service.

### PP Melt Stick

- Used to fill larger damaged areas in the coating prior to patch application or as a repair for minor coating damage.

### PP Adhesive Filler

- Supplied as a filler material to fill voids prior to the application of Canusa's CRP-PP repair patch. It can also be used to repair the mainline coating.

### Liquid Epoxy

- Acts as an initial corrosion protection layer for major repairs when the damaged area extends to the steel surface.
- Unique force cure technology ensures consistent thickness prior to installation of the adhesive filler material and repair patch.



### Applications



Oil & Gas



Offshore, Reel, J & S Lay



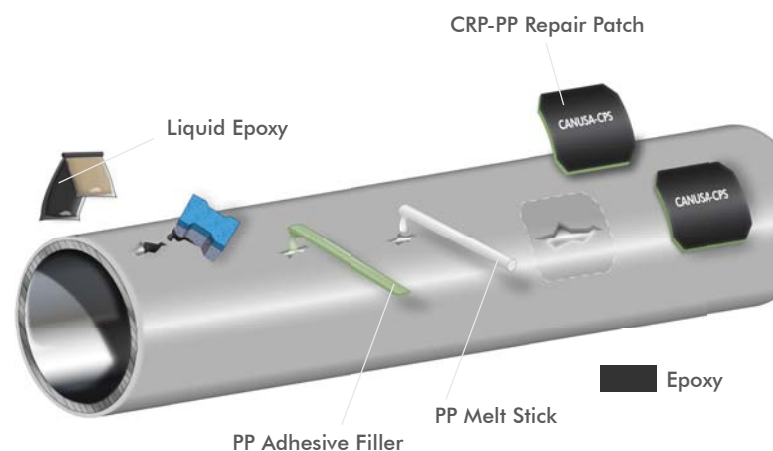
High Temperature



High Abrasion Environments



High Moisture Environments



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Operating Characteristics of Repair Products	Standard	Typical Values
Pipeline Operating Temp.		Up to 140°C (284°F)*
Minimum Installation Temp.		140°C (284°F)**
Mainline Coating Compatibility		PP
Adhesive Properties (CRP-PP, PP Adhesive Filler & PP Melt Stick)		
Melting point	ASTM D3418	147°C
Lap Shear @ 23°C	EN 12068	> 500 N/cm <sup>2</sup>
Lap Shear @ 110°C	EN 12068	> 100 N/cm <sup>2</sup>
Backing Properties (CRP-PP Backing)		
Tensile Strength	ASTM D638	28 MPa
Elongation	ASTM D638	425%
Hardness	ASTM D2240	65 Shore D
Volume Resistivity	ASTM D257	2 x 10 <sup>17</sup> ohm-cm
Patch Properties (CRP-PP in applied form)		
Impact Resistance	ISO 21809-1	10 J/mm
Adhesion Strength @ 110°C	ISO 21809-1	40 N/cm
Cathodic Disbondment <sup>†</sup> @ 23°C, 28 days	ISO 21809-1	< 3 mm
Cathodic Disbondment <sup>†</sup> @ 95°C, 28 days	ISO 21809-1	< 7 mm
Hot Water Immersion <sup>†</sup> @ 95°C, 28 days	ISO 21809-1	Pass, No disbondment

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

\*\* Canusa-CPS recommended installation temperature.

† CRP-PP installed with Canusa Liquid Epoxy. Epoxy is required when damage extends to steel.



The product information shown here is intended as a guide for standard products.

Consult your Canusa representative for specific projects or unique applications.

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## Canusa-CPS is registered to ISO 9001:2008

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

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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.