

# 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.

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
<b>Adhesive Properties (CRP-PP, PP Adhesive Filler &amp; PP Melt Stick)</b>		
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>
<b>Backing Properties (CRP-PP Backing)</b>		
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
<b>Patch Properties</b>		
Impact Resistance	ISO 21809-1	10 J/m
Adhesion Strength @ 110°C	ISO 21809-1	40 N/cm
Cathodic Disbondment @ 23°C, 28 days	ISO 21809-1	< 3 mm
Cathodic Disbondment @ 23°C, 28 days	ISO 21809-1	< 7 mm
Hot Water Immersion @ 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.

Last Updated: 12/18/2017 3:43:05 PM