

# Polyethylene Repair Products

## Coating repair products for corrosion protection

Canusa's Repair Products are used to repair and/or fill voids in damaged coatings. A full line of products provides the flexibility to make a variety of repairs to mainline or field joint coatings, ranging from minor coating damage to exposed steel.

All of Canusa's Pipeline Repair Products offer flexibility of installation, exhibit excellent adhesion to steel and are compatible with all common pipeline coatings. These products also remain permanently flexible and provide superior resistance to moisture infiltration, resulting in complete corrosion protection.

### The Coating Repair Patch (CRP)

- Consists of an irradiated, cross-linked polyolefin sheet coated with a heat-activated adhesive, designed specifically for sealing and protection of damaged pipeline coatings up to 50mm x 50mm in size.
- Fast installation with no special tools required, providing a barrier to moisture and corrosion with resistance to abrasion and shear forces during pipeline installation and while in-service.

### Melt Sticks (MS)

- Melt Sticks are heat-activated adhesives supplied as a rod for ease of application and are ideal for small coating repairs ranging from superficial damage to holidays and cracks up to 10mm x 10mm.

### Mastic Filler (MF)

- Mastic Filler is used to fill larger voids and deep crevices in damaged coatings prior to the application of Canusa Repair Patches.



### Applications



Oil & Gas



Water Pipelines



Repair & Rehab



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Sleeve Operating Characteristics		CRPO	CRPN	CRP65
Pipeline Operating Temp.		Up to 60°C (140°F)	Up to 80°C (176°F)	Up to 65°C (150°F)
Minimum Installation Temp.		75°C (167°F)	90°C (194°F)	90°C (195°F)
Mainline Coating Compatibility		PE, PP, PU, FBE, CT, Bit	PE, PP, PU, FBE, CT, Bit	PE, FBE, PP, HPCC
Adhesive Properties	Test Method			
Softening Point	ASTM E28	102°C	124°C	94°C
Lap Shear @ 23°C	ISO 21809-3	15 N/cm <sup>2</sup>	52 N/cm <sup>2</sup>	245 N/cm <sup>2</sup>
Backing Properties				
Tensile Strength	ASTM D638	24 MPa	24 MPa	24 MPa
Elongation	ASTM D638	700%	700%	700%
Hardness	ASTM D2240	48 Shore D	48 Shore D	48 Shore D
Volume Resistivity	ASTM D257	10 <sup>17</sup> ohm-cm	10 <sup>17</sup> ohm-cm	10 <sup>17</sup> ohm-cm
Sleeve Properties				
Impact	ISO 21809-3	pass	pass	pass
Indentation	ISO 21809-3	pass	pass	pass
Adhesion Strength @ 23°C	ISO 21809-3	8 N/cm	30 N/cm	60 N/cm
Cathodic Disbondment	ASTM G8	8 mm rad	17 mm rad	13 mm rad

Melt Stick Properties	Test Method	Typical Values
Softening Point	ASTM E28	124°C
Lap Shear @ 23°C	ISO 21809-3	>300 N/cm <sup>2</sup>

Mastic Filler Properties	Test Method	Typical Values
Softening Point	ASTM E28	146°C
Lap Shear @ 23°C	ISO 21809-3	5 N/cm <sup>2</sup>

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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#### Quality Management system registered to ISO 9001

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.



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