Factory Grade PE Repair Products

Polyethylene-based coating repair products for corrosion protection

Canusa's Factory Grade PE Repair Products for factory-applied 3LPE coating provide excellent adhesion and shear resistance at high pipeline operating temperatures. The polyethylene repair patch has been uniquely designed to be fully compatible with the polyethylene pipeline coating. The melt stick is also made from polyethylene for maximum compatibility. These aspects ensure compatibility throughout the range of Canusa products offered.

Coating Repair Patch (CRP-PE)

- 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 150mm x 150mm 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.

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.
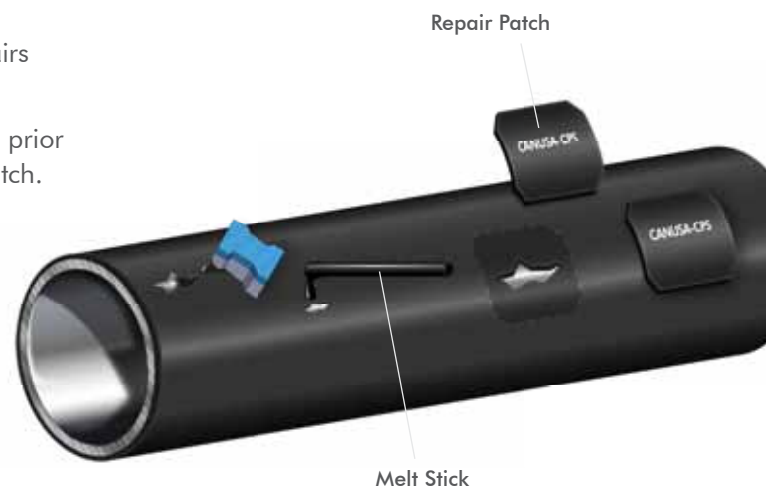

Applications

 Oil & Gas

 Water Pipelines

 Repair & Rehab

Repair Patch

Melt Stick

Factory Grade PE Repair Products

Polyethylene-based coating repair products for corrosion protection

Patch Operating Characteristics		CRP-PE
Pipeline Operating Temp.		Up to 100°C (212°F)*
Minimum Installation Temp.		125°C (257°F)**
Mainline Coating Compatibility		3LPE, FBE

Adhesive Properties	Test Method	
Softening Point	ASTM E28	> 150°C
Lap Shear @ 23°C	EN 12068	> 450 N/cm²

Backing Properties		
Tensile Strength	ISO 527	22 MPa
Elongation	ISO 527	600%
Hardness	ISO 868	55 Shore D
Volume Resistivity	ASTM D257	10^{17} ohm-cm

Patch Properties		
Adhesion Strength @ 23°C	ISO 21809-1	> 120 N/cm
Impact Resistance	ISO 21809-1	7 J/mm
Indentation Resistance @ 80°C	DIN 30670	0.4 mm
Cathodic Disbondment† @ 23°C, 28 days	ISO 21809-1	< 3 mm

* Actual temperature rating is dependant on specific project requirements and conditions. Please consult your local Canusa representative.
** Canusa-CPS recommended installation temperature.
† CRP-PE installed with Canusa Liquid Epoxy. Epoxy is required when damage extends to steel.

Melt Stick Properties	Test Method	Typical Values
Softening Point	ASTM E28	124°C
Lap Shear @ 23°C	EN 12068	> 300 N/cm²

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.

CANUSA-CPS
A ShawCor Company

Pipeline corrosion **Protection**