

CRP Repair Patch, Melting Stick, Mastic Sealant Filler

Steel Pipeline factory Coating Repair Materials

Description

CRP is specifically designed for seal and protection of damaged pipeline or filling damaged hole (voids) of coating pipeline. CRP consists of repair patch, Melting Stick and mastic sealant filler.

CRP Repair patch Construction: 2-layer

First layer: Copolymer hot melting adhesive

Second layer: Radiation-cross-linked, high density polyethylene (unexpanded)

Melting Stick is made of hot melt adhesive same with first layer of CRP

In general, CRP is available for repairing damage less than 150mm×150mm in size.

If damaged area of coating pipeline is larger than 150mm×150mm, Heat shrinkable wraparound sleeve (or HWT wraparound tape) is recommended.

Installation is done with gas torches. To repair a damaged area, installers round out, roughen, clean and preheat the area and apply the HMAS to fill up the holiday. CRP, cut to size, is positioned onto the treated area and heated. During heating, the adhesive softens and flows to form a tight bond with the backing. The bond strength builds up during cool-down and is fully retained after repairing completion.



Features & Benefits

CRP provides excellent abrasion resistance, inert to acids and alkalis and solvents, moisture and corrosion resistance. The hot melting adhesive stick is supplied as rods for sealing or repairing smaller damage hole or crack (up to 10mm×10mm), which provides excellent adhesion (to PE, FBE and steel) and moisture resistance.

Application guide

	CRP	Melt Stick	Mastic Sealant filler
Performance	EN 12068 Class C, HT UV	EN 12068 Class C, HT UV	EN 12068 Class C, HT UV
Compatible line coatings	PE, FBE, Coal Tar	PE, FBE, Coal Tar	PE, FBE, Coal Tar
Soil stress restriction	None	None	None
Max operating temperature	80°C (176°F)	80°C (176°F)	80°C (176°F)
Min preheat temperature	70°C (158°F)	70°C (158°F)	70°C (158°F)

Specification

Standard Ordering Options

The following specifications are available:	Example: CRP 150×150-2.2 HMAS 20/250
Thickness mm	1.8, 2.2, 2.5
Patch width(piece) mm	100, 150, 200, 250
Patch length(piece) mm	100, 150, 200, 250
Hot melting adhesive stick	Diameter 20mm, length 250mm or Diameter 25mm, length 300mm
	Example: CRP 150×150-2.2 HMAS 20/250 CRP Coating repair patch for protection corrosion of damage pipeline 150×150 The size of CRP, mm×mm 2.2 CRP thickness, mm HMAS Hot melting adhesive stick 20/250 Stick diameter 20mm, length 250mm CRP could also be ordered in bulk roll

Product properties:

Property	Test Method	Typical Value CRP
PE Melt Stick		
Dielectric strength at 23°C	IEC 243	15KV/mm
Tensile strength at 23°C	ISO R-527	6.0 MPa
Elongation	ASTM D-638	550%
Hardness, 23°C	ISO R-858	35 Shore D
Impact strength 23°C	EN12068 Class C	15 Joules, pass
Holiday detection at 23°C	DIN30672	Pass 5kV + 5kV/mm
PE Repair Patch		
Adhesive Softening Point	ASTM E-28	115°C
Adhesive water absorption at 23°C	ASTM D-570	0.1%
Adhesive peel strength to PE coating at 23°C	EN12068	1.5 N/mm
Adhesive Shear Strength at 23°C	EN12068	0.1N/mm ²
Tensile strength of backing at 23°C	ASTM D-638	20 MPa
Ultimate elongation of backing at 23°C	ASTM D-638	500 %
Dielectric strength of backing at 23°C	ASTM D-149	15kV/mm