

PE Repair Patch&PE Melt Stick

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

RP 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 RP.

In general, RP 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 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 hot melting adhesive stick to fill up the holiday. RP, 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

RP 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

Application guide	RP	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)

PRODUCT SPECIFICATIONS

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

■ PRODUCT SPECIFICATIONS

Property	Test Method	Typical Value RP
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	1.5N/mm
Adhesive Shear Strength at 23°C	EN12068	0.1N/mm
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