

Melt Sticks (MS) & Mastic Filler (MF)

Melt Sticks (MS)

Description

Our repair product is based on a PE copolymer thermally activated adhesive. It is manufactured by blending and extruding multiple high-performance materials. This product is designed for repairing damages in polyethylene anti-corrosion coatings of buried or overhead steel pipelines, as well as for repairing insulation layer damages in thermal insulation pipelines. Examples of such damages include scratches, impact marks, bubbles, and incisions generated during peel strength tests.

When using, heat the melting rod with flame, apply the melted material onto the damaged area, and wait for it to cool and solidify. This will form a unified structure with the original polyethylene external anticorrosive layer of the pipeline. It establishes a continuous and sealed anticorrosion system that can resist soil stress, hydrostatic pressure, cathodic disbondment, chemical corrosion, and fungal erosion. It provides long-term and effective anticorrosion protection for steel pipelines.

It is suitable for minor coating repairs, ranging from surface damage to dents and cracks up to 10mm x 10mm (0.39in x 0.39in).



Technical Data Sheet

Properties	Typical Value	Test Method
Max Operating Temperature	85°C (185°F)	-
Min. Preheat Temperature	60 to 70°C (140 to 158°F)	-
Compatible Lline Coatings	PE, PP, FBE	-
Adhesive/Black		
Softening Point	120°C (248°F)	ASTM E28
Lap Shear	@23°C (73°F) 5.6N/mm ² (810psi)	ASTM D1002
	@80°C (176°F) 0.61N/mm ² (88psi)	
Peel to PE	@23°C (73°F) 28.02N/cm (16lb/in)	ASTM D1000
Low Temp. Flexibility	-25°C (-13°F)	ASTM D2671, C
Product Dimensions		
Length	305mm (12in)	Customizable
Diameter	25mm (1in)	
Supply Packaging	Packed per 50 pc in a bag	

Storage and Shelf Life

Store indoor, clean and dry, away from direct sunlight in a cool place below +50°C (+122°F). Unlimited shelf life.

Mastic Filler (MF)

Description

Our MF is a filler based on high-viscosity sealant. It is used to fill larger gaps and deep cracks in damaged coatings, thereby restoring the milling coating thickness of pipelines. Prior to applying CRP. Delivered in coil form.



Technical Data Sheet

Properties	Typical Value	Test Method
Softening Point	146°C (248°F)	ASTM E28
Lap Shear	@23°C (73°F) 5.6N/mm ² (810psi)	ASTM D1002
Peel Strength	@23°C (73°F) 28.02N/cm (16lb/in)	ASTM D1000
Low Temp. Flexibility	-25°C (-13°F)	ASTM D2671, C
Product dimensions		
Width	50mm (2in)	Customizable
Thickness	3mm (0.12in)	
Length Per Roll	3000mm (9.8ft)	

Storage and Shelf Life

Store indoors, clean and dry, away from direct sunlight and keep product between 5°C (40°F) and 40°C (104°F). Shelf life of 5 years from the date of manufacturing. Exceeding the shelf life requires re-inspection.

Friendly Reminder

When selecting products, please pay attention to the application scenarios to ensure reasonable matching.

For more technical inquiries, please visit our website.

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