Butyl Rubber Filled Tape

A Butyl Based Adhesive Sealing Filler

Features

- Compatible with common pipeline coatings
- Flexible without hardening
- Conformable and moldable
- Flexible under various field conditions

Our butyl rubber filled tape is a high-quality adhesive material, primarily composed of non-curing butyl rubber. It belongs to the category of 100% solid extrusion putty.

This material is used for sealing T-joints, elbows, valves, specially shaped pipes, transition areas around welded and socket joints, as well as filling perforated points. It exhibits high adaptability to irregular shapes. The butyl rubber filled tape should be used in conjunction with a butyl rubber primer and applied before the installation of heat-shrink or cold-coated products.

The product is available in both rope and flat belt forms, with a variety of thicknesses and widths to fully meet the needs of any application scenario.

Storage and Shelf Life

Store in a cool, dry place indoors, away from direct sunlight, with ambient temperature between 10°C and 50°C (50°F and 122°F). Stand upright, stacking height not exceeding 5 layers. The shelf life during storage is 3 years.

General Requirements for Applications

General: The area to be coated has to be cleandry, and free from oil, grease and dust. All contamination including mill-scale has to be removed.

Degreasing: Degrease surfaces with Toluene or Heptane and e.g. a lint-free cloth.

Preventing Condensation of Water: Before and during construction, the working surface temperature must always remain at least 3°C (37.4°F) above the dew point temperature.

Working Surface Temperature: The surface temperature of the operation should be maintained between 20°C and 40°C (68°F to 104°F) and preheating should be performed if necessary.

Properties		939	Test Method
Color		Black	-
Compatible Lline Coatings		Polyethylene, epoxy resin, butyl tape, asphalt rubber tape, and heat-shrinkable products.	-
Operating Temperature		-40 to 85°C (-40 to 185°F)	-
Softening Point		125°C (257°F)	ASTM E28
Specific Gravity		1.40g/cm^3(11.68lbs/gal)	ASTM D792
Cone Penetration		@ 25°C (77°F) 65 to 90 dmm	ASTM D217
Lap Shear		@23°C (73°F) 0.35N/mm^2 (50psi)	ASTM D1002
		@85°C (185°F) 0.035N/mm^2 (5psi)	
Low Temp. Flexibility		@23°C (73°F) No cracking or adhesion loss	ASTM C765
Elevated Temperature Flow		@85°C (185°F) No sag or shape change after 14 days	ASTM C765
Peel to PE		@23°C (73°F) 28.02N/cm (16lb/in)	ASTM D1000
		@85°C (185°F) 3.5N/cm(2.0lb/in)	
Low-temperature Flexibility		@-37°C (-35°F) No cracking occurs	ASTM D3111
Product Dimensions			
Rope	Thickness	10.7/15.2/22.6/40.6mm (0.42/0.60/0.89/1.60in)	Customizable
	Breadth	10.7/16.8/22.6/46.7mm (0.42/0.66/0.89/1.84in)	
	Length	6.6/4.4/4.4/2.3m (21.75/14.50/14.50/7.4ft)	
Flat Belt	Thickness	3.2 to 5 mm (0.125 to 0.2 in)	
	Breadth	50.8 to 152mm (2.0 to 6in)	
	Length	2 to 6.1m (6.56 to 20ft)	

Application Instruction

Step 1

Clean substrate to SSPC-SP6/NACE3 or SA2 (Commercial Blast) with a 25–76μm (1–3 mils) anchor profile.

Step 2

The primer should be uniformly applied to achieve a wet film thickness of 50.8 to 76.2 micrometers (2 to 3 mils). Before applying the 2-layer structure PE inner tape, the primer must reach a "touch-dry" state.

Step 3

If the height of the raised circumferential weld exceeds 24mm (3/32 inch), the weld should be coated with T3089-35 seam tape or 939 butyl rubber filler tape for transition.

Step 4

Apply subsequent additional coatings on the butyl rubber filler strip to complete the installation of the entire system.

Step 5

Perform holiday detection per NACE SP0274 Handling and commissioning.

Friendly Reminder

The backfill should be kept clean and should not contain any foreign matter that could damage the coating system.

For more technical inquiries, please visit our website.

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