Bitumen Tape PE

Integrated Cold Wrap Tape

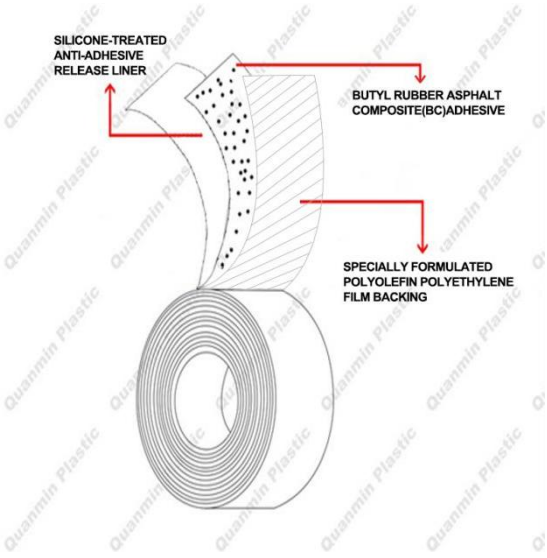
Features

- Uniform and consistent coating thickness
- Compatible with common pipeline coatings
- Long lasting UV resistance
- Excellent resistance to cathodic disbonding
- Can be applied over a wide temperature range
- Consistent quality in factory prefabrication and on-site application

Our polyethylene asphalt tape is comprised of a butyl rubber asphalt composite (BC) adhesive, a specially formulated polyolefin polyethylene film backing, and a silicone-treated anti-adhesive release liner. This product offers superior corrosion protection and waterproofing for underground or overhead steel pipelines, elbows, tees, and associated fittings in the petroleum, natural gas, petrochemical industries, as well as wastewater systems.

Description

Our high-strength butyl asphalt composite adhesive for polyethylene asphalt belts delivers exceptional adhesion to both work surfaces and the material itself. The flexible polyethylene film backing provides additional protection for vulnerable areas. This integrated solution effectively resists corrosion caused by acids, alkalis, and salts, while also withstanding mechanical loads. With a single product and packaging process, there is no need for additional protective materials. Cold application allows for complete installation in a single operation.



Project		T 6100-39	T 6120-47	T 6150-59	Test Method
Total Thickness		1.00mm (39.3mils)	1.20mm (47.2mils)	1.50mm (59mils)	ASTM D1000
Polyethylene Film		0.15mm (5.9mils)	0.25mm (9.8mils)	0.45mm (17.7mils)	ASTM D1000
Butyl Rubber Asphalt Adhesive		0.85mm (33.5mils)	0.95mm (37.4mils)	1.05mm (41.3mils)	ASTM D1000
Elongation at Break @23°C (73.4°F)		≥300%			ASTM D1000
Tensile Strength @23°C (73.4°F)		≥60N/cm (≥34.3lbs/in)			ASTM D1000
Peel Strength to Primed Steel at	At 23°C (73.4°F)	≥48N/cm (≥438.5oz/in)			ASTM D1000
	At 50°C (122°F)	≥10.5N/cm (≥96oz/in)			ASTM D1000
Adhesion to Backing at 23°C (73.4°F)		≥30.5N/cm (≥278.66oz/in)			ASTM D1000
Water Vapor Transmission Rate @23°C (73.4°F)		≤0.10g/m^2/24h. (≤0.0064g/100sqin/24h)			ASTM E96
Water Absorption Rate @23°C (73.4°F)		≤0.08% 24h			ASTM D570
Dielectric Strength		≥26KV			ASTM D149
Impact Resistance		15N·m(133in·lbs)			ASTM G14
Cathodic Disbondment		≤6.2mm (≤0.244in radius)			ASTM G8
Application Temperature		-34°C to +85°C (-29°F to 185°F)			
Max Serve Temperature		+85°C (185°F)			
Diameter of Inner Core		41 or 76mm (1.614 or 2.992in)			
Available Roll Size (width * length)		50 to 750mm X 15 to 240m (1.97 to 29.53in X 49.29 to 787.4ft)			
Color		Black, White, yellow or other			

Storage and Shelf Life

This product should be stored in a dry and ventilated place, and the same environment must be maintained during transportation. The storage temperature range shall not be lower than 16℃ (60℉) and not higher than 49℃ (120℉), and the humidity shall not be higher than 90%. The shelf life is 12 months (reinspection is required after expiration).

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.

For spiral welded pipes or recesses, fillers should be used and our butyl rubber filler tape should be selected to fill the gaps.

Application Instruction

Step 1

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

Step 2

Before applying bitumen Tape PE, evenly coat the primer to achieve a wet film thickness of 50.8 to 76.2 microns (2 to 3 mils). The primer should reach a "touch-dry" state before proceeding with the application of bitumen Tape PE.

Step 3

Spiral winding with a neck reduction rate of 1 to 2 percent, overlapping as required by design and not less than 25.4mm (1 inch).

Step 4

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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