PVC Bitumen Tape

Heavy-Duty Anti-corrosion Protective Tape

Features

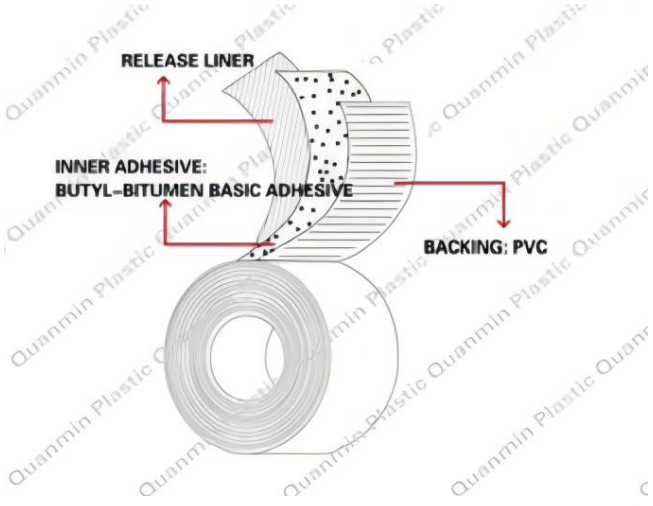
- Multi-climate conditions
- Adhesive layer optional
- High shear strength
- High impact resistance
- Non cracking and low absorbent to moisture
- Easy & Flexible to apply

Our PVC asphalt tape is an "all-weather" anti-corrosion self-adhesive tape. It is used to protect steel and ductile iron pipelines, welded joints, elbows, fittings, and similar structures from corrosion in above-ground, underground, submerged, or underwater environments.

The self-adhesive backing layer of our PVC asphalt tape is crafted from durable and flexible polyvinyl chloride (PVC), featuring exceptional alkali and acid resistance, along with outstanding toughness to withstand damage from impacts or poor backfilling in harsh geological conditions. The adhesive layer consists of rubber-modified asphalt compounds or fiber-reinforced rubber-modified asphalt compounds, providing high shear strength and excellent cathodic peeling resistance. The asphalt compound layer is protected by a wider anti-stick liner than the tape itself to prevent contamination; this liner is removed and discarded during application.

Description

Our PVC asphalt tape features different asphalt compound layers suitable for a wide temperature range. This product is available in various thicknesses to meet anti-corrosion requirements for different soil conditions and grades. Its varying widths accommodate pipeline diameter specifications. With minimal on-site training, it can be manually applied by most operators or mechanically applied in workshops. Usage requires pairing with a high-solids primer.We recommend using 1058.



Project		T 5150-59	T 5160-63	T 5165-65	Test Method
Backing Thickness		0.75mm (29.5mils)	0.50mm (20mils)	0.75mm (29.5mils)	ASTM D1000
Adhesive Thickness		0.75mm (29.5mils)	1.10mm (43mils)	0.90mm (35.4mils)	ASTM D1000
Total Thickness		1.50mm (59mils)	1.60mm (63mils)	1.65mm (64.9mils)	ASTM D1000
Elongation at Break [Film]		270%			ASTM D638
Tape Strength [Film]		>18N/mm^2 (>2611psi)			ASTM D638
Tear resistance [Film]		≥45.5N			ASTM D1004
Adhesion (180°peel/24hrs)	to Primed Stee	≥30N/cm (≥274oz/i)			ASTM D1000
	to Self	≥28N/cm (≥256oz/i)			ASTM D1000
Impact Resistance		≥15N·m (≥133in·lbs)			ASTM G14
Dielectric Strength		≥32KV			ASTM D1000
Volume Resistivityl @+23°C (+73.4°F)		2.5.x10^{12}Ω·cm (x10^{12}ohm·in)			ASTM D257
Cathodic Disbondment		≤8mm (≤0.63in radius)			ASTM G8
Water Vapor Transmission Rate		≤0.35g/m^2/24h.@23°C (73.4°F)			ASTM E96
Water Absorption Rate		≤0.15%24h.@23°C (73.4°F)			ASTM D570
Resistance to Bacterial Attack		Excellent			ASTM G21
Application Temperature		-10°C to +75°C (14°F to 167°F)			
Max Serve Temperature		+80°C (176°F)			
Diameter of Inner Core		76mm (2.992in)			
Available Roll Size (Width x Length)		100 to 300mm X 12 to 240m (3.94 to11.81in X 39.37 to 787.4ft)			
Color		Black/Blue			

All values given are subject to 5-10% tolerance

Storage and Shelf Life

This product should be stored in a shaded area, protected from direct sunlight and extreme temperatures. The storage area must remain cool, dry, and well-ventilated, with regular monitoring of temperature and major heat sources. The ambient temperature within the storage area should always be below 30°C (86°F). Recommended storage temperature: +5°C to +30°C (41°F to 86°F) . Humidity should not exceed 75%. In tropical regions, the product should be stored in an air-conditioned environment. Maximum stacking height: ≤5 layers. When stored under recommended conditions, the shelf life can extend up to 12 months.

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.

Prevent water vapor condensation: The working surface temperature must remain at least 5°C (41°F) above the dew point temperature before and during construction.

Working face temperature: The operating surface temperature should be maintained between 5°C and 45°C (41°F to 113°F), with preheating required when 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 (1–3 mils) anchor profile.

Step 2

After opening the primer package, stir for 1~2 minutes until no sediment is left.

Before applying PVC Bitumen Tape, apply the primer evenly to the work surface using a brush or roller at a rate of 4-6 m^2/L. Once the primer has achieved surface dryness, proceed with the PVC Bitumen Tape application.

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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