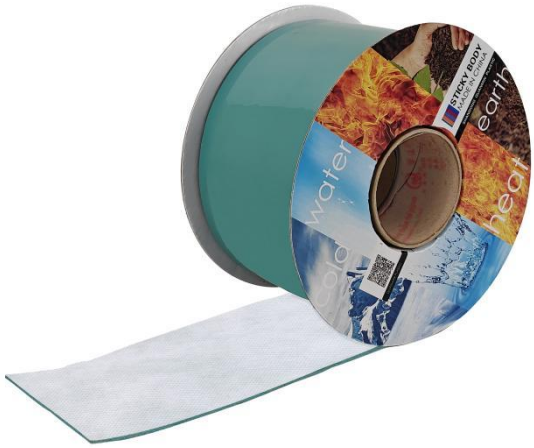
Paintable Visco-Elastic Tape

Nonwoven top layer viscoelastic packaging tape



Features

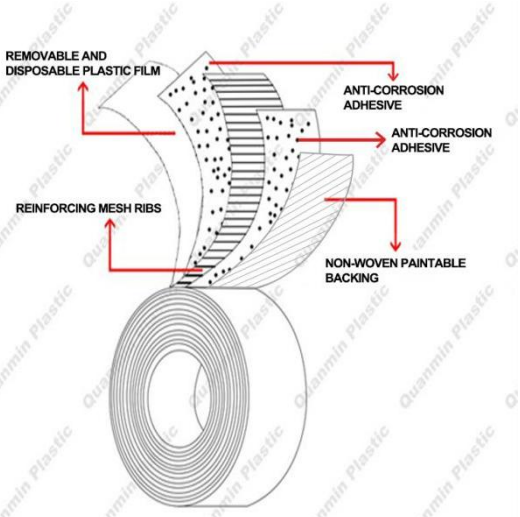
- No complex surface pretreatment is required
- Low surface tension
- Self-healing repair
- Non-aging, non-weathering
- Flexible, easily adaptable to irregular shapes
- Adaptable to various types of topcoat application

An amorphous, non-polar, semi-solid viscoelastic material with a paintable top layer, offering excellent corrosion resistance and waterproof properties as a tape.

Our Paintable Visco-Elastic Tape features a unique non-woven paintable backing material, utilizing non-toxic, pure homopolymeric isobutylene as the base. Characterized by low viscosity, an amorphous structure, and non-crosslinked properties, it serves as a cold pre-formed anti-corrosion wrapping tape. This product is suitable for various structural applications in atmospheric environments prone to moisture penetration or corrosion, providing long-term protection for commercial buildings, residential properties, public facilities, communications infrastructure, transportation systems, power grids, water supply and drainage systems, sewage treatment plants, agricultural facilities, and industrial sectors. It offers advantages such as easy application, excellent sealing performance, and corrosion resistance.

Description

Our Paintable Visco-Elastic Tape comprises five layers: a non-woven paintable backing material, anti-corrosion adhesive, a reinforcement mesh, additional anti-corrosion adhesive, and a removable, disposable plastic film. It allows for painting in various colors after installation. The product is available in three temperature specifications: 50°C (122°F, LT specification), 75°C (167°F, HT specification), and 105°C (221°F, XHT specification), to better meet your application needs. This product requires no curing process and demonstrates excellent adhesion to various substrates, including steel, polyethylene (PE), polypropylene (PP), epoxy resin, and polyurethane.



Project	EZ LT	EZ HT	EZ XHT	Test Method
Thickness	2.0 ± 0.2mm (80 ± 0.8mils)			ISO 28605
Density	1.5 ± 0.1g/cm^3 (12.5 ± 0.8lbs/gal)			ISO 1183
Thermal Resistance	+70°C (+158°F)	+95°C (+203°F)	+125°C (+257°F)	ASTM D5470
Application Temperature Range	-45 to +50°C (-49 to +122°F)	-45 to +75°C (-49 to+167°F)	-45 to +105°C (-49 to+221°F)	ASTM D3418
Drip Resistance	48h at +125°C (+266°F) No dripping	48h at +130°C (+275°F) No dripping	48h at +155°C (+311°F) No dripping	ASTM D2196
Holiday Detection	15kv No holidays			ASTM D149
Volume Resistivity	2.2x10^{13}Ω·cm (8.7x10^{12}ohm·in)			ASTM D257
Water Vapor Permeability 24h, at+23°C (+73.4°F)	3.5x10^{-4}g/daymF/Pa (4.94×10^{-4}lb/day/ft^2/ps)			ASTM E96
Water Absorption 24h, at+23°C (+73.4°F)	0.03%			ASTM D570
Peeling of Carbon Steel and Plant Coating PE/PP/FPE	at -45°C (-49°F) 0.8N/mm (70.1ozf/in) at +23°C (+73°F) 0.05N/mm (4.57ozf/in) at +50°C (+122°F) 0.03N/mm (2.74ozf/in)	at -45°C (-49°F) 3N/mm (274.1ozf/in) at +23°C (+73°F) 0.3N/mm (27.41ozf/in) at +75°C (+167°F) 0.05N/mm (4.57ozf/in)	at -45°C (-49°F) 5.8N/mm (529.9ozf/in) at +23°C (+73°F) 0.6N/mm (54.81ozf/in) at +105°C (+221°F) 0.08N/mm (7.27ozf/in)	ASTM D3330

Thermal Aging Peel Strength	+70°C (+158°F) hot water down 100 days. at +23°C (+73°F) 0.04 N/mm (3.65ozf/in) at +50°C (+122°F) 0.03N/mm (2.74ozf/in). In all cases cohesive separation mode and ≥ 98% coverage of surface. ≥0.6mm Residual thickness.	+95°C (+203°F) hot water down 100 days. at +23°C (+73°F) 0.26 N/mm (23.8ozf/in) at +75°C (+167°F) 0.04N/mm (3.65ozf/in). In all cases cohesive separation mode and ≥ 98% coverage of surface. ≥0.6mm Residual thickness.	+125°C (+257°F) hot water down 100 days. at +23°C (+73°F) 0.51N/mm(46.6ozf/in) at 105°C (+221°F) 0.07N/mm (6.4ozf/in) In all Cases cohesive separation mode and ≥ 98% coverage of surface. ≥0.6mm Residual thicknes.	ASTM D3161
Available Roll Size (Width * Length)	50 to 300mm X 10 to 20m (1.97 to 11.81in X 32.81 to 65.2ft)			
Exterior Surface Color	White			

Storage and Shelf Life

This product should be stored indoors in a clean, dry, and well-ventilated area, away from direct sunlight. Keep the boxes upright with stacking height ≤ 5 layers. The same environmental conditions must be maintained during transportation. Storage temperature range: +4°C to +40°C (40°F to 104°F). Shelf life is unlimited.

Typical Application Scenarios

Corridor modification, used for corrosion resistance and UV aging protection of exposed pipelines in petrochemical, gas, shipbuilding, and other industries, with color coding for identification.

Roof sealing, used for waterproof sealing of roof joints, voids, cracks, as well as top vent pipes, chimneys, and exhaust vents.

The sealing at the edge plate of the tank bottom serves as a waterproof skirt for the beveled area of the tank bottom edge plate.

Steel structure, used to protect steel beams, sections, panels, etc. from atmospheric corrosion.

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: At temperatures above 0°C (32°F), the operating surface temperature should be maintained between +20°C and +40°C (68°F – 104°F), with preheatingtreatment required when necessary.

Special handling: For surface depressions, use our Visco-Elastic Filler Paste or viscous-elastic filler strips to fill them.

Depending on the application scenario, there may be other applicable Paintable Visco-Elastic Tape system materials available. Please consult us for further information.

Application Instruction

Step 1

Minimum surface preparation should be ISO 8501-1 ST2/SSPC-SP2 (Hand Tool Clean). Thoroughly remove any loose material, then clean the residue with toluene or heptane using a lint-free cloth.

Step 2

For example: specific surfaces such as steel beams, roofs, etc. Remove the pre-cut material from the release liner and adhere the bonding surface to the substrate. This can be done by rolling-out the material for large open areas and post-roll the applied material with a heavy steel roller. Remove the release liner just prior to application to the surface, such to avoid contamination of the adhesive surface and premature adhesion to the substrate. For small areas and details, pre-cut the material and apply it by hand and press the material firmly to the substrate with the help of a roller. A minimum overlap of 10mm [⅜"] is required. The overlaps will be visible in the finished system.

Step 3

After the Paintable Visco-Elastic Tape installation is completed, apply the recommended topcoat according to the suggested dry film thickness to finalize the Paintable Visco-Elastic Tape coating system.

Step 4

After installation the Paintable Visco-Elastic Tape EZ must be inspected. The appearance must look smooth and should be shaped tight around all details.

Friendly Reminder

Objects coated with Paintable Visco-Elastic Tape EZ should not be exposed to loads e.g. from supportsor lifting equipment. To avoid damage from foot traffic on large surfaces, wear clean shoes with smooth soles.

For more technical inquiries, please visit our website.

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