

Viscous Elastic Filler Strips

A viscoelastic Paste in the Form of a Belt

Features



Good cold flow properties



Does not age, does not weather



No primer needed



No cathode delamination



Easy-to-control applications



Our viscous-elastic filler strips are non-toxic, cold-applied, tape-like viscoelastic pastes. This product exhibits the same performance characteristics, features, and applications as our viscous elastic filler paste, with the only difference being the packaging form.

Description

The product demonstrates unique viscosity performance at specified operating temperatures, combined with resistance to water, salt spray, and UV radiation, as well as extremely low water vapor permeability. It is designed to level irregular surfaces such as flanges, valves, bolts, nuts, substrates, and coating depressions prior to coating application. Additionally, it is suitable for a wider range of scenarios.

The product remains non-solidified over an extended period and does not generate internal stress. It requires an additional flexible mechanical protective layer on the surface or a rigid mechanical protective coating.

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: $+4^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ (40°F to 104°F). Shelf life is unlimited.

Project	Typical Numerical Value	Test Method
Color	Green/Blue	-
Meat Thick	2.5mm (0.1in)	ASTM D1000
Density	1.4g/cm ³ (11.68lbs/gal)	ASTM D792
Temperature Range	-45 to +75°C (-49 to +167°F)	ASTM D3418
Short-term Temperature Resistance	+95°C (+194°F)	ASTM D573
Glass Transition Temperature	-65°C (-85°F)	ASTM E1356, 03
Softening Point	+125°C (+257°F)	ASTM E1356, 03
Water Vapor Permeability @23°C (+73.4°F) 24h	3.5x10 ⁴ g/daymF/Pa (4.94x10 ⁴ lb/day/ft ² /ps)	ASTM E96/96M-10
Water Absorption @23°C (+73.4°F) 24h	0.03%	ASTM E96
Adhesion	test on steel, PP, PE and FBE, Cohesive separation mode, no signs of adhesive failure.	ISO 814
Volume Resistivity	2.3x10 ¹³ Ω-cm (9.1x10 ¹² ohm-in)	ASTM D257, 07
Dielectric Breakdown	18.5KV/mm (469.9KV/in)	ASTM D149, 09
Cathodic Disbondment	at +23°C (+73°F) 0mm (0in) at +75°C (+167°F) 0mm (0in)	ASTM G8
Breadth	50 to 300mm (1.97 to 11.81in)	Customizable
Diameter of Inner Core	41mm (2.992in)	
Length	10m (32.81ft)	

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 preheating treatment required when necessary.

Application Instruction

Step 1

Minimum surface preparation should be 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

After cutting to the appropriate size, remove the anti-stick layer and place it on the substrate. Press the viscous elastic filler strips fully onto the surface of the substrate to shape a smooth contour and ensure good adhesion.

Step 3

- After shaping the viscous elastic filler strip, use Visco-Elastic Tape or Visco-Elastic EZ wrapping tape to completely cover the viscous elastic filler strip.
- Make sure that the wrap transitions onto the surrounding substrate.

Step 4

After the viscous elastic filler strip is covered, PE or PVC packaging is selected for mechanical protection layer.

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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