

# Visco-Elastic Filler Paste

A Moldable Paste Anti-corrosion Material



## Features



Good cold flow properties



Does not age, does not weather



No primer needed



No cathode delamination



Easy-to-control applications

Our Visco-Elastic Filler Paste is a non-toxic, cold-applied compound designed for leveling irregular surfaces prior to coating. It is suitable for applications on flanges, valves, bolts, nuts, substrates, and coating depressions.

This product is based on an amorphous, low-viscosity, non-crosslinked (completely non-crystalline) pure homopolymer of polyisobutylene. It exhibits unique viscosity performance at specified operating temperatures, along with water resistance, salt spray resistance, and UV radiation resistance, as well as extremely low water vapor permeability.

## Description

Our viscoelastic filler paste is available in three specifications: 50°C (122°F, LT), 75°C (167°F, HT), and 105°C (221°F, XHT) to better meet your application needs. Since this product does not cure and cannot accumulate internal stress, it requires either additional flexible mechanical protection layers or the application of rigid mechanical protection layers on top.

## 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  $\leq 5$  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.

## General Requirements for Applications

**General:** The area to be coated has to be clean, dry, 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.

Project	PASTE LT	PASTE HT	PASTE XHT	Test Method
Color	Green/Blue			-
Compatibilit	PE, PP, FBE, PU, Coal tar, Bitumen			-
Density	1.4g/cm <sup>3</sup> (11.68lbs/gal)			ASTM D792
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
Short-term Temperature Resistance	+70°C (+158°F)	+95°C (+194°F)	+120°C (+248°F)	ASTM D573
Glass Transition Temperature	- 65°C (-85°F)			ASTM E1356, 03
Softening Point	+100°C (+212°F)	+125°C (+257°F)	+152°C (+306°F)	ASTM E1356, 03
Water Vapor Permeability @23°C (+73.4°F) 24h	3.5x10 <sup>4</sup> g/daymF/Pa (4.94x10 <sup>4</sup> lb/day/ft <sup>2</sup> /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 <sup>13</sup> Ω·cm (9.1x10 <sup>12</sup> 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 +50°C (+122°F) 0mm (0in)	at +23°C (+73°F) 0mm (0in) at +75°C (+167°F) 0mm (0in)	at +23°C (+73°F) 0mm (0in) at +105°C (+221°F) 0mm (0in)	ASTM G8
Packaging Information	2kg/block, 10 block/case (20kg/case)			

## 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

Remove the anti-adhesive layer and place it on the substrate. Press the visco-elastic filler paste fully onto the surface of the substrate to shape a smooth contour and ensure good adhesion.

### Step 3

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

### Step 4

After the viscous elastic filler paste 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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