

VISCOPASTE

Product Data Sheet

SKPS®

Viscotaq® Viscopaste is a non crystalline a-polar viscous elastic solid polyolefin coating in paste form used for the protection of under- and aboveground pipeline related substrates against corrosion such as flanges, bolts, valves and for sealing casing ends against water infiltration.

Viscotaq® Viscopaste is a 2-layer system that is commonly used in conjunction with Viscotaq® Viscowrap and a mechanical protective outer wrap that can be a Viscotaq® PE, PVC or Viscotaq® PU composite outer wrap.

Uses

- Mastic for concrete, steel, PVC, metal, wood, vinyl, and other coatings
- Soil-to-air transitions
- Pipe, flanges, valves and fittings
- Girth welds
- Buried pipelines with minimal surface preparation
- Can be used with ViscoWrap ST, HT or Viscotaq EZ Wrap
- Waterproofing of gravity-fed pipes, manholes, seams, penetrations, and cracks
- CUI applications
- End seal for pipe casing
- Tank chimes
- Waterproofing for bell and spigot joints

Application



- Temperature range -42° C/-43° F up to +71° C/+160° F
- Continuous operating temperature up to 60° C/+140° F
- Application temperature > +5° C/+41° F
- Surface preparation minimum SSPC/SP-2
- Recommended surface preparation SA 2-1/2 or SSPC/SP-10
- Application minimum +3° C/+5° F above dew point



For more information, please contact us:

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Features

- ✓ Melting point +152,8° C/+307,04° F
- ✓ Glass transition temperature -42° C/-43° F
- ✓ Self healing in case of small damages
- ✓ Impervious to moisture and gases
- ✓ Adhesion to the substrate without primer
- ✓ Remaining flexibility over decades
- ✓ Easy in use; can be cut and paste
- ✓ Permanent wetting characteristics
- ✓ Eliminates Microbiological Induced Corrosion (MIC)
- ✓ No curing time
- ✓ Extreme high chemical resistance
- ✓ No sensitivity to salts and osmosis
- ✓ Cohesive fracture
- ✓ 100% inert formulation: no reactive groups and no deterioration in the course of time

Surface Preparation

- Surface inspected prior to application with any defects documented.
- Minimum surface preparation should be ST2/SSPC-SP2 (Hand Tool Clean).
- Once loose material are removed, clean surface with denatured alcohol or acetone to remove any remaining dust, grease, and moisture.
- Surface of substrate should be 5°F (3°C) or greater above the dew point.
- Keep the working area clean and dry at all times. Avoid the presence of water.
- Any adjacent coating should be roughened by means of sandpaper or a grinding machine, if applicable. Suggested overlap onto the existing coating is 4" – 6".

1. Viscopaste

- Remove the release liner and place onto the substrate.
- Press and mold the ViscoMastic against substrate to ensure good adhesion and conformity to the substrate.
- Once completed, place or wrap over the ViscoMastic using strips or rolls of ViscoWrap or EZ Wrap to completely cover it.
- Make sure that the wrap transitions onto the surrounding substrate.

2. PVC Outerwrap or PE Outerwrap

- After wrapping of ViscoMastic is completed, immediately begin wrapping over the ViscoWrap with PE Outerwrap or PVC Outerwrap to complete the Viscotaq Coating System. PE Outerwrap or PVC Outerwrap is applied in the following manner:
- PVC PE Outerwrap should be wrapped with tension and a minimum of 50% overlap.
- The first and termination wraps should be a straight circumferential wrap.
- A ¼" section of ViscoWrap should still be visible at each end of the Outerwrap application.

3. PU Composite Wrap

- Do not open the foil pouch until ready to apply product.
- Once ready to apply the PU Composite Wrap, remove from the hermetically sealed, foil pouch using protective gloves and place in room-temperature water (salt or fresh) for 20-30 seconds.
- The roll should be immersed in water for a longer time when the environment is cold or dry.

- After wrapping is completed, immediately begin wrapping compression foil the same direction the layers of PU Composite Wrap were applied to compress it quickly and with tension applied.
- Overwrap each end of the PU Composite Wrap by at least 2 inches (50 mm) to ensure the ends lay flat and resin is retained.
- Once compressed, use the Tool to puncture the compression foil. This will allow for excess resin, moisture, and carbon dioxide from the reaction to escape. Apply only enough pressure to puncture the compression foil and not the layers of PU Composite wrap.
- When the material has cured, the compressing wrap may be removed.

Technical Data

Properties	Value	Metric
Material State	Semisolid	Semisolid
Density (DIN 53479)	1.1-1.4	1.1-1.4
Glass Transition Temperature (ASTM E1356-03)	-45.26°F	-42.92°C
Softening Point (ASTM E1356-03)	306°F	152°C
Water Vapor Permeability (ASTM E96/96M-10)	<5.6 x 10 ⁻⁴ lb/day/ft ² /psi	<4 x 10 ⁻⁴ g/day/m ² /Pa
Water Absorption (ISO 62)	<0.03%	<0.03%
Cathodic Disbondment at 73°F (23°C) (ASTM G8-96/ISO 21809-3)	0 mm (Self-healing)	0 mm (Self-healing)
Cathodic Disbondment at 122°F (50°C) (ASTM G8-96/ISO 21809-3)	0 mm (Self-healing)	0 mm (Self-healing)
Volume Resistivity (ASTM D257-07)	>8.7 x 10 ¹² ohm*in	>2.2 x 10 ¹³ ohm*cm
Surface Resistivity (ASTM D257-07)	>6.0 x 10 ¹⁶ ohm*ft ²	>5.6 x 10 ¹⁵ ohm*m ²
Thermal Resistance	-45°F to 158°F	-45°C to 70°C
Dielectric Strength (ASTM D149-09)	>445 KV/in	>17.5 kV/mm
Impact Strength (ISO 21809-3 (2016) Annex D)	>133 in-lbf	>15 J (Immediate)
Indentation (ISO 21809-3 (2016) Annex E)	No holidays	No holidays
UV/Weather Cycle Test (ASTM D4587, 1000 Hours)	Excellent, rating 10	Excellent, rating 10
Wet Adhesion Test (CSA Z245-20-06 Sec. 12.14)	Excellent	Excellent
Chemical Resistance in Aggressive Soils Tested in Sulfuric Acid(30%), Nitric Acid(10%), Phosphoric Acid (20%) Hydrochloric Acid (10%)		

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