

Product Data Sheet

VISCOTAQ® VISCOPASTE



Product Description

VISCOPASTE is a non-crystalline, a-polar viscous elastic solid polyolefin coating in paste form used for the protection of underground and aboveground pipeline related substrates against corrosion such as flanges, bolts, valves and for sealing casing ends against water infiltration. VISCOPASTE is a 2-layer system that is commonly used in conjunction with VISCOWRAP and a mechanical protective outer wrap that can be a PE, PVC or PU composite outer wrap.

General Information

VISCOTAQ® is a unique viscous elastic non-crystalline, a-polar polyolefin for the protection of shaped and non-shaped substrates. VISCOTAQ® offers the pipeline industry an unrivaled technology when it comes to corrosion prevention. Unlike other coatings, VISCOTAQ® always has a permanent and intimate contact with the surface of a substrate. The viscosity and elasticity modulus of the material are designed in such a way that the viscosity modulus provides permanent wetting characteristics hence forcing the material to flow into the pores and anomalies of the substrates whereas the elasticity modulus provides the strength and elasticity of a solid.

Use and Application

- Temperature range -42°C/-43°F up to +71°C/+160°F
- Surface preparation minimum SSPC/SP-2
- Application substrate temperature +3°C/+5°F above dew point (clean & dry)
- Shelf life is unlimited

Features

- 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
- 100% inert formulation; No reactive groups and no deterioration over the course of time
- Permanent wetting characteristics
- Eliminates Microbiological Induced Corrosion (MIC)
- No curing time
- Extreme high chemical resistance
- No sensitivity to salts and osmosis
- Cohesive fracture

Application:

Surface preparation

The surface area to be coated should be inspected prior to coating; known defects must be documented and photographed prior to application.

- Minimum surface preparation should be ST2/ SSPC-SP2 (Hand Tool Clean).
- Once loose materials are removed, clean surface with denatured alcohol or acetone to remove any remaining dust, grease and moisture.
- Surface of the substrate should be 5°F+ above the dew point.
- Keep the working area clean and dry at all times. Avoid the presence of water.

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- VISCOTAQ® VISCOPASTE is applied by removing the release liner and placing/molding into place.
- For optimum application of VISCOPASTE, the product should have a temperature between 70°F & 80°F.
- VISCOPASTE can be cut into small pieces for easier application.

Measurement	Value	Method
Glass Transition Temperature	-42.92°C/-45.26°F	ASTM E1356-03
Material State	Solid	N/A
Density	1.1-1.3	DIN 53479
Thickness	1.25" by 1.5" and 0.5" by 1.0" profile	ISO 4593: 1993(E)
Water Vapor Permeability	<4 * 10 ⁻⁴ g/day/m ² /Pa	ASTM E96/96M-10
Water Absorption	<0,03%	ISO 62
Water Penetration	<0.14% (1800 hrs, 6V, 3% NaCl)	ASTM G9-87
Cathodic Disbondment	0-3mm Self-healing	ASTM G8-96, ISO 21809
Volume Resistivity	>2.2* 10 ¹³ ohm*cm	ASTM D257-07
Surface Resistivity	>5.6* 10 ¹⁵ ohm*m ²	ASTM D257-07
Dielectric Strength	>17.5 kV/mm	ASTM D149-09
UV/Weather Cycle Test	Excellent, rating 10	ASTM D4587, 1000 hours
Wet Adhesion Test	Excellent	CSA Z245-20-06 Sec. 12.14
Chemical Resistance In Aggressive Soils	Excellent No deterioration, 72 hours at 70°C/158°F No corrosion, 72 hours at 70°C/158°F	1. Sulfuric acid 30% 2. Nitric acid 10% 3. Phosphoric acid 20% 4. Chloric acid 10%

Testing was performed by Charter Coating Service Laboratories in Calgary, Canada. Charter Coating is an ISO17025 certified laboratory. Copies of reports are available upon request.

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