

VISCOTAQ[®] Viscopaste

Product data sheet

Product description

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. 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
- 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

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



| Measurement | Value | Method |
|---|---|---|
| Glass Transition Temperature | -42.92° C/-45.26° F | ASTM E1356-03 |
| Material State | Solid | NA |
| Density | 1.1-1.3 | DIN 53479 |
| Thickness | 1.25" by 1.5" and 0.5" by 1.0" profile | ISO 4593:1993(E) |
| Melting Point | 152.09° C/306° F | ASTM E1356-03 |
| Yield Point | Yes | ISO 3219 |
| 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 | 0-3 mm Self healing | ASTM G8-96 ISO 21809 |
| Dissipation factor | <0.15 (1500 hrs, 20 kHz) | ASTM G9-98 |
| Pore Resistance | Rp0/Rp1<1.5 | EIS Spectroscopy |
| 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. Fosforic acid 20% 4. Chloric acid 10% |

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



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