

VISCOTAQ[®] Viscosealant

Product data sheet

Product description

VISCOSEALANT is a viscous elastic non hardening caulking compound for waterproofing and corrosion prevention. The material can be used for corrosion protection of above ground flanges, as a waterproof seal at ring wall tanks and for water proofing cable and pipe penetrations. VISCOSEALANT provides for a water proof and gas restrictive seal. The material is available in cartridges of 12 oz./310 ml and 30 oz./1 liter.

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 modules provides the strength and elasticity of a solid.

Use and application

- Temperature range -42,9° C/-45,26° F up to +50° C/+120° F
- Continuous operating temperature up to 50° C/+120° F
- Application temperature > +5° C/+41° F
- Surface preparation: free of loose particles, dust, debris

Features

- Viscous elastic solid adhesive compound
- Universal application as a corrosion preventative sealant and water barrier
- Unlimited shelf life
- Immediate adhesion to all surfaces
- Easy injection into small crevices
- Glass transition temperature -42,92° C/-45,26° F
- Self healing in case of small damages
- Impervious to moisture and gases
- Remains flexible and tacky
- Permanent wetting characteristics
- Non toxic; no solvents
- 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 |
| Form | Caulking material | NA |
| 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 |
| Volume Resistivity | >2.2* 10 ¹³ ohm*cm | ASTM D257-07 |
| Surface Resistivity | >5.6* 10 ¹⁵ ohm*m2 | ASTM D257-07 |
| Dielectric Strength | >17.5 kV/mm | ASTM D149-09 |
| Wet Adhesion Test | Excellent | CSA Z245-20-06 Sec. 12.14 |
| Salt Spray test | Excellent, no undercreep, no corrosion, rating 10 | ASTM B117-09 |



VISCOSEALANT: waterproofing cable and pipe penetrations. Left picture: sealing penetrations at vault system for control valves. Middle picture: multiple cables in one sleeve. Right picture: viscous elastic behavior during filling: the viscous component is dominant during filling and allows for flow around and in between the pipes, while the elastic component takes over when the material is in place; therefore no dripping or running can occur.

*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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