

Product Data Sheet

VISCOTAQ® ViscoWrap



Product description

VISCOTAQ® VISCOWRAP is an amorphous viscous elastic (viscoelastic) solid polyolefin coating for corrosion prevention of underground and aboveground substrates. VISCOTAQ'S® molecular chemistry is unique and designed in such a way that the viscosity gives it permanent wetting characteristics and the elasticity of the product provides the strength and feeling of a solid. The VISCOTAQ® compound bonds to the substrate by means of Van der Waals principals, penetrating the pores and anomalies of the substrate. The coating remains in intimate contact with the substrate creating an impermeable homogeneous corrosion prevention coating.

General Information

The VISCOTAQ® Coating System is a 2-layer system that consists of a corrosion protective inner layer (VISCOWRAP) and a mechanical protective outer layer. VISCOTAQ® Coating System is non-shielding and requires no primer, mixing or curing time. The system can be applied after minimal surface preparations and can be back filled immediately after installation. The unique chemistry allows the VISCOTAQ® Coating to be self-healing in cases of minor damage. The VISCOTAQ® Coating System is non-toxic and contains no VOCs.

Use and Application

- Temperature range -42.92°C/-45.26°F up to +121°C/+250°F
- Surface preparation minimum SSPC/SP-2
- Application substrate temperature +3°C/+5°F above dew point (clean & dry)
- Shelf life is unlimited

Features & Benefits

- Easy to apply
- Self-healing in cases of minor damages
- Compatible with other coatings
- Impervious to moisture and gases
- Non-toxic
- Complete adhesion without primer
- No Interference with CP functions
- Compliant with ISO Field Joint Coatings Standard 21809-3
- 100% inert formulation: no reactive groups and no deterioration over the course of time
- Cold applied
- No sensitivity to salts and osmosis
- Remains flexible over decades
- Environmentally friendly
- Continuous wetting characteristics
- UV resistant
- No curing time
- Molds and forms easily
- Made in the USA
- Cohesive fracture

Specification assistance Chart

VISCOTAQ VISCOWRAP	OUTER WRAP OPTIONS							
BURIED APPLICATIONS	+ PVC 10 mil		+ PVC 20 mil		+ PE 15 Mil		+PU composite	
	Tmin	Tmax	Tmin	Tmax	Tmin	Tmax	Tmin	Tmax
VISCOWRAP LT (Low temp)			-55°C (-67°F)	-35°C (-31°F)	-55°C (-67°F)	+35°C (95°F)	-55°C (-67°F)	+50°C (122°F)
VISCOWRAP ST (Standard Temp.)			-43°C (-45.4°F)	+50°C (122°F)	-43°C (45.4°F)	+50°C (122°F)	-43°C (-45.4°F)	+85°C (185°F)
VISCOWRAP HT (High temp)			-35°C (-31°F)	+70°C (158°F)	-35°C (-31°F)	+70°C (158°F)	-35°C (-31°F)	+100°C (212°F)

Above Ground or under insulation applications									72 hr. Short Term Exposure
-	+ PVC 10 mil		+ PVC 20 mil		+ PE 15 Mil		+PU composite		
	Tmin	Tmax	Tmin	Tmax	Tmin	Tmax	Tmin	Tmax	
VISCOWRAP LT (Low temp)	-55°C (-67°F)	+50°C (122°F)	-55°C (-67°F)	+50°C (122°F)	-55°C (-67°F)	+50°C (122°F)	-55°C (-67°F)	+70°C (158°F)	+85°C (all outer wraps)
VISCOWRAP ST (Standard Temp.)	-43°C (45.4°F)	+70°C (158°F)	-43°C (-45.4°F)	+85°C (185°F)	-43°C (-45.4°F)	+85°C (185°F)	-43°C (-45.4°F)	+100°C (212°F)	+120°C (PU only) 248°F
VISCOWRAP HT (High temp)	-35°C (-31°F)	+70°C (158°F)	-35°C (-31°F)	+85°C (185°F)	-35°C (-31°F)	+85°C (185°F)	-35°C (-31°F)	+120°C (248°F)	+150°C (PU only) 302°F

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.
- The adjacent coating should be roughened by means of sand paper or a grinding machine (If applicable). Suggested overlap onto the existing pipe coating: < 30" pipelines 4" overlap, > 30" pipelines 6" overlap.

VISCOTAQ® VISCOWRAP

- VISCOTAQ® VISCOWRAP is applied by removing the release liner and placing adhesive side on the pipe.
- Initial wrap should be a straight circumference wrap.
- Once initial straight circumference wrap is completed, wrap with slight tension and a minimum 1/2" overlap.
- Wrap at an angle to create a smooth overlap and to ensure no air pockets are formed during wrapping.
- End wrapping of VISCOWRAP with a straight circumference wrap.
- For coating repairs and difficult to reach areas VISCOTAQ VISCOWRAP can be applied in pieces, strips or individual circumference wraps (cigarette wrap).

VISCOTAQ® Outer Wrap, PE or PVC

- Outer Wrap should be wrapped with tension and a minimum of 50% overlap.
- Outer Wrap shall be wrapped in the opposite direction from how the VISCOWRAP was applied.
- First wrap and termination wrap should be a straight circumference wrap.
- A 1/4" section of VISCOWRAP should still be visible at after the PVC or PE Outer Wrap had been applied.

VISCOTAQ Composite Wrap can be used in place of or in addition to the PVC or PE when additional mechanical protection is required.

Measurement	Value	Method
Glass Transition Temperature	-42.92° C/-45.26° F	ASTM E1356-03
Material State	Semisolid	NA
Density	1.1-1.3	DIN 53479
Thickness	>1.8 mm/ >70 mils	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
Cathodic Disbondment	0-3 mm 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
Impact Strength	>15 J (immediate)	ISO 21809-3 (2016) Annex D
Indentation	No holidays	ISO 21809-3 (2016) Annex E
UV/Weather cycle test	Excellent, rating 10	ASTM D4587, 1000 hours
Wet Adhesion Test	Excellent	CSA Z245-20-06 Sec. 12.14

For additional information, please contact:

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