

Viscotaq EZ Wrap

Amorphous, Apolar, Visco-Elastic Semi-Solid, Polyolefin Coating

Composition

Viscotaq EZ Wrap is an amorphous, apolar, visco-elastic, semi-solid, polyolefin coating with a printable backing for corrosion prevention of underground and aboveground substrates. It is part of the Viscotaq coating system which consists of a corrosion protective sealant or mastic covered by the EZ Wrap and a mechanical protective outer layer, if required. This coating system offers exceptional corrosion prevention and waterproofing for a variety of substrates.

Uses

- Coating 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
- Waterproofing of gravity-fed pipes, manholes, seams, penetrations, and cracks
- CUI applications
- End seal for pipe casing
- Tank chimneys
- Waterproofing for bell and spigot joints

Service temperature: -45°C to +70°C

Characteristics

- Impermeable to moisture and gases
- Immediate adhesion to substrate / permanent wetting characteristics
- No primer needed
- Easy to apply, no mixing or messy clean-up
- Minimal surface preparation required (SP2-wire brush)
- Excellent cathodic protection / low cathodic disbondment
- Self-healing characteristics
- Inert material, no deterioration over time
- Resistant to aggressive soil conditions such as water, acid, salts, or soil organics.

- Quick long-term protective coating, ready for immediate service
- Contains no solvents, no carcinogens, non-toxic, non-flammable
- Contains fire retardant materials and self-extinguishing
- UV resistant and never cracks or becomes brittle
- Flexible, pliable, conforms to irregular shapes easily
- Freeze / thaw resistant
- Thermal resistance 45°C to 70°C
- Ability to fill voids and anomalies of substrate
- Meets NACE 0109:2019 and ISO 21809-3:2016
- Available in high temperature grade

Surface Preparation

Surface preparation should include the following:

- 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 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 100mm-150mm.

Application

ViscoWrap EZ Wrap is applied in the following manner:

- Prior to the application of Viscotaq EZ Wrap, seal cracks, seams, etc. with ViscoSealant or contour penetrations, flanges, or step changes in substrate with

ViscoMastic. After this, Viscotaq EZ Wrap is applied in the following manner:

- Remove the release liner and place the adhesive side onto the substrate .
- The initial wrap should be a straight circumferential wrap.
- Once completed, wrap the pipe with slight tension and a minimum of ½" overlap.
- Wrap at an angle to create a smooth overlap and to ensure no air pockets are formed during wrapping.
- End wrapping with a straight circumferential wrap.
- For coating repairs, flat application areas and difficult to reach areas EZ Wrap can be applied in pieces, strips, or individual circumferential wraps (cigarette wrap).

After wrapping of Viscotaq EZ Wrap is completed, immediately begin wrapping over the Viscotaq EZ Wrap with PVC Outerwrap or PE Outerwrap to complete the Viscotaq Coating System.

PVC Outerwrap or PE Outerwrap is applied in the following manner:

- PVC Outerwrap or 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 Viscotaq EZ Wrap should still be visible at each end of the outer wrap application.

If an Outerwrap is not required, an aesthetic or protective coating, such as Denso shield, may be applied to the EZ Wrap.

Availability

50mm x 10m, 100mmx10m
150mmx10m, 300mmx10m

Storage conditions

Store in a cool and dry place in original packaging.

Waste material

Please avoid or minimise waste wherever possible. Please do not discard waste material, including packaging, in the surrounding environment. Follow all relevant legislation for disposal.

Typical Properties	English	Metric
Material State	Semisolid	Semisolid
Thickness (ISO 4593:1993E)	>70 mils	>1.8 mm
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)	<5.6x10 lb ⁻⁴ /day/ft ² /psi	<4x10 lb ⁻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)	0-0 mm (Self-healing)	0-0 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-lb	>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%)	Excellent No deterioration, 72 hours at 158°F / No corrosion, 72 hours at 158°F	Excellent No deterioration, 72 hours at 70°C / No corrosion, 72 hours at 70°C

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