VISCOTAQ™ ViscoMastic XHT

AMORPHOUS, LOW VISCOSITY, APOLAR, VISCO-ELASTIC, SEMI-SOLID, POLYOLEFIN MASTIC FOR EXTRA HIGH TEMPERATURES

DESCRIPTION

VISCOTAQ™ ViscoMastic XHT is an amorphous, apolar, visco-elastic, semi-solid, polyolefin mastic for corrosion prevention of underground and aboveground substrates. It is part of the Viscotaq coating system which consists of a conformable mastic, a corrosion protective layer (ViscoWrap or EZ Wrap) and a mechanical protective outer layer, if needed. This coating system offers exceptional corrosion prevention and waterproofing for a variety of substrates.

USES

- Mastic for concrete, steel, PVC, metal, wood, vinyl, and other coatings
- Soil-to-air transitions
- Pipe, flanges, valves and fittings
- Girth welds
- Buried pipelines, above ground and CUI applications
- Profiling sturctural steel applications
- Tank Chime sealing

FEATURES

- Impermeable to moisture and gases
- Immediate adhesion to substrate / permanent wetting characteristics
- No primer needed
- Easy to apply, no mixing or messy clean-up
- 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 from -45°C to 125°C
- Ability to fill voids and anomalies of substrate
- Meets NACE 0109:2019, ISO 21809-3:2016 & AS4822-2018

SURFACE PREPARATION

Surface preparation should include the following:

- Surface inspected prior to application with any defects documented.
- Surface preparation should be a minimum ISO 8501-1 ST2/SSPC-SP2 (Hand Tool Clean).
- Once loose materials are removed, clean surface with 100% Isopropyl Alcohol, IPA, VISCOTAQ Substrate Cleaner to SSPC-SP1 to remove any remaining dust, grease, and moisture.
- In the case of abrasive blasting, a surface cleanliness of Sa 2 (SSPC 6) with a surface roughness of less than 100 microns is recommended.
- Surface of substrate should be >10°C and a minimum of 3°C or greater above the dew point. In low temperatures preheating of VISCOTAQ™ materials and/or preheating of substrate may be required.
- Keep the working area clean and dry at all times. Avoid the presence of water.

Any adjacent coating should be cleaned and prepared to ST2/ST3, if applicable. Suggested overlap onto the existing pipe coating is 100mm for <760mm diameter pipe and 150mm for >760mm diameter pipe.

VISCOTAQ™
ULTIMATE VISCO-ELASTIC COATING & SEALANT

Denso®
CORROSION PREVENTION

APPLICATION

VISCOTAQ™ ViscoMastic XHT is applied in the following manner:

- Remove the release release liner and place onto the substrate.
- Press and mold the ViscoMastic against substrate to ensure good adhesion and conformity to the substrate.
- Once completed, place or wrap over the ViscoMastic XHT using strips or rolls of ViscoWrap or EZ Wrap to completely cover it.
- Make sure that the wrap transitions onto the surrounding substrate.

After wrapping of ViscoMastic XHT and ViscoWrao/EZ Wrap is completed, immediately begin wrapping over the ViscoWrap with PE Outerwrap or PVC Outerwrap to complete the Viscotaq Coating System. **VISCOTAQ™ PE Outerwrap** or **PVC Outerwrap** is applied in the following manner:

- PE Outerwrap or PVC Outerwrap should be wrapped with tension and a minimum of 50% overlap.
- The first and termination wraps should be a straight circumferential wrap.
- A 3-5 mm section of ViscoWrap ST should still be visible at each end of the outerwrap application.

Denso Glass Outerwrap™ may be used in addition to the PE Outerwrap or PVC Outerwrap when additional mechanical protection or increased service temperature is required. Glass Outerwrap (GOW) is applied in accordance with the TDS.

STORAGE

Store in a dry, well-ventilated area between 4°C and 60°C in original, unopened containers. Shelf life is unlimited under these conditions. It is recommended that all components be stored between 20°C and 30°C for 24 hours prior to use for optimum product application characteristics.

Due to the adhesive nature of the product, release films/papers should be kept in place during storage and whenever the material is placed on its side after removal from the case.

PACKAGING

Tape Width (mm)	Tape Length (m)	Rolls*/ Carton
19.1 mm x 19.1 mm	6.1m	6
38.1mm x 31.8 mm	10m	27

TECHNICAL DATA

PROPERTIES	METRIC
Material State	Semisolid
Density (DIN 53479)	1.1-1.4
Glass Transition Temperature (ASTM E1356-03)	-42.92°C
Softening Point (ASTM E1356-03)	152°C
Water Vapor Permeability (ASTM E96/96M-10)	$<4 \times 10^{-4}$ g/day/m^2/Pa
Water Absorption (ISO 62)	<0.03%
Cathodic Disbondment at 23°C (ASTM G8-96/ISO 21809-3)	0mm (Self-healing)
Cathodic Disbondment at 50°C (ASTM G8-96/ISO 21809-3)	0mm (Self-healing)
Volume Resistivity (ASTM D257-07)	$>2.2 \times 10^{13}$ ohm*cm
Surface Resistivity (ASTM D257-07)	$>5.6 \times 10^{15}$ ohm*m^2
Thermal Resistance	-45°C to 125°C
Dielectric Strength (ASTM D149-09)	>17.5 kV/mm
Impact Strength (ISO 21809-3 (2016) Annex D)	>15 J (Immediate)
Indentation (ISO 21809-3 (2016) Annex E	No holidays
UV/Weather Cycle Test (ASTM D4587, 1000 Hours	Excellent, rating 10
Wet Adhesion Test (CSA Z245-20-06 Sec. 12.14)	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 70°C / No corrosion, 72 hours at 70°C

Denso®
CORROSION PREVENTION

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