

VISCOTAQ® Casing Filler

Product description

VISCOTAQ® is a non-crystalline a-polar viscous elastic (viscoelastic) solid polyolefin for corrosion prevention & waterproofing 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 compound remains in intimate contact with the substrate creating an impermeable homogeneous waterproof seal.

General information

VISCOTAQ® Casings Fill is designed to fill the annular space between the casing pipe and carrier pipe. The Casing Fill can be installed by pumping the heated product through the vent pipe. Due to the chemistry of the product it will displace any existing water in the annulus space creating an insulator around the carrier pipe that will not harden, crack or allow for moisture penetration. The VISCOTAQ® fill product is inert and does not change over time, once installed no depletion of the product will occur and no replenishing will be necessary. VISCOTAQ® Casings Fill can be installed with basic equipment and does not depend on heating of large quantities of products. The product can be supplied in barrels for easy transportation and handling.

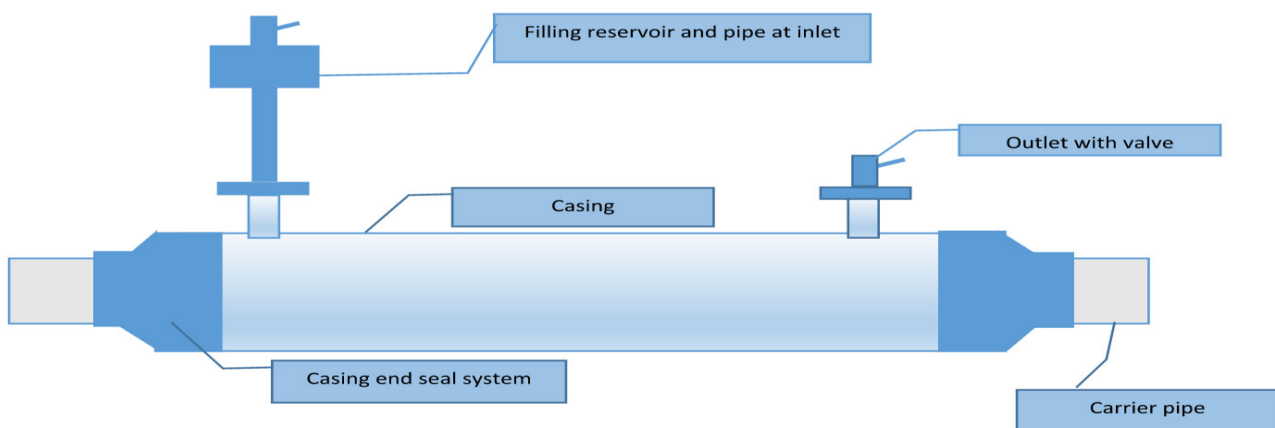
VISCOTAQ® Casings Fill is compatible and recommended to be used in conjunction with the VISCOTAQ® Casings End Seal System.

Features

- Easy to apply
- Non toxic
- Patented Technology
- Environmentally friendly
- Compatible with coatings
- Long lasting synthetic composition
- No depletion over time
- Molds and forms easily
- No refilling over time
- Low glass transition temp
- Made in the USA
- Creates an impermeable/waterproof barrier
- No special requirements for shipping, storage or disposal
- Remains in viscous elastic/semi-solid state
- Manufactured under ISO9001 standards
- Impervious to moisture and gases

Application data

- Temperature range -10° C/-45,26° F up to +50° C/+121° F
- Continuous operating temperature up to 50° C/+120° F
- Application temperature > +70 C/+150 F



Preparation

- Job Site: The work area needs to be easily accessible for equipment. Standard equipment may include a high volume compressor unit, 55 gallon drums, pneumatic or hydraulic ram (drum unloader ram), handling equipment, hoses, work truck, etc.
- Casing: The casing needs to be prepared with an inlet to couple a 2 inch hose on one end of the casing and have an outlet on the other. Both inlet and outlet should be installed on the 12 o'clock position. The air vents can be utilized to connect the hose. Control valves should be installed on both in and outlet.
- When water/sand/debris is present in the casing, removal can be done with high pressure air for short sections. For long sections, other means may be available by industrial contractors.
- Carrier pipe: The carrier pipe should be reasonably centered by for instance casing spacers. Shorts between casing and carrier pipe should be avoided. The carrier pipe should be clean and free of dirt/debris, etc..

Safety

- During the work PPE should be used and minimal requirements are: FRP, steel toe boots, hard hat, safety gloves and protective eye ware.
- The work place should be organized. Equipment should be inspected and installed at a safe location. Any area which may be considered dangerous, should be fenced.
- Work according to federal and local regulations and in compliance with OSHA requirements.

Equipment

- Drum heaters for 55 gallon drums
- Pneumatic ram for 55 gallon drum, with 2 inch hose connections.
- Heated hoses
- 3 feet 2 inch diameter pipe with connections and a filling reservoir with valve
- Tool box including knife, scissor, wrenches, etc..
- cleaning rags and materials
- Viscopaste, Viscowrap and Viscotag Composite wrap, to be installed as casing end seals, according to "Installation Guide Viscotag Casing End Seal Solution"

Installation Procedure

- Preheat the necessary amount of product with the drum heaters prior to the job. The product should be liquefied and minimum 150 F.
- Install the casing end seals according to the procedure "Installation Guide Viscotag Casing End Seal Solution" on each end of the casing
- Connect the 3 feet 2 inch pipe and filling reservoir on the inlet
- Connect the hose of the drum pump on the inlet valve and load the drum pump with the 55 gallon drum of Viscotag Casing Filler
- Ensure the outlet valve is open
- Start pumping until the drum is empty and/or the casing is filled
- Reload new drums when necessary and refill
- Disconnect the hose from the inlet at the reservoir
- Close the valve at the outlet
- Return to the job site once the material has cooled and check the reservoir if material is still visible. If not, refill the reservoir with additional product (by preheated steel bucket filled with material for instance)

Measurement	Value	Method
Glass Transition Temperature	<-10° C	ASTM E1356-03
Material State	Semi solid	NA
Density	0.8-1.3	DIN 53479
Form	Caulking material	NA
Melting Point	>50 C	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*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
Salt Spray test	Excellent, no undercreep, no corrosion, rating 10	ASTM B117-09



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