

# Enhanced Viscous Elastic Technology



# VISCOTAQ<sup>®</sup>

THE SMART SELF HEALING PIPE COATING

# A UNIQUE VISCOTAQ® ELASTIC TECHNOLOGY!

VISCOTAQ® is a worldwide patented viscous elastic pipeline technology coating that is used for corrosion prevention of pipelines, storage tanks, soil to air transitions, above ground flanges, pipe crossings and in the ditch applications.

VISCOTAQ® also offers a unique waterproofing line of products to stop water infiltration at pipe casings, buildings, vaults, storm drains, sewer lines and more.

VISCOTAQ® products have been tested extensively by external laboratories, international oil and gas companies as well as in field trials.

The VISCOTAQ® products differentiate from any other product by being a synthetic viscous elastic solid, combining excellent adhesion based upon the Van Der Waals bonding principle, while being a solid with no dripping behavior.



## Serving the industry!

VISCOTAQ® is a unique viscous-elastic amorphous a polar polyolefin for the protection against corrosion of underground and above ground substrates in the pipeline industry, petrochemical industry, utility and water industry. VISCOTAQ® has been developed in cooperation with leading companies in the oil and gas industry and polymer engineering companies to meet the demand for new viscous elastic coating products with unique and better properties for the protection of shaped and non shaped substrates. The result is a product that offers the pipeline industry an unrivaled technology when it comes to corrosion prevention.

## The philosophy behind VISCOTAQ®

The philosophy behind the development of VISCOTAQ® is that, unlike other coatings, VISCOTAQ® always has a permanent and intimate contact with the surface of the substrate. The viscous modulus and the elasticity modulus of the material are designed in such a way that the viscosity modulus gives permanent wetting characteristics, forcing the material to flow into the pores and anomalies of the substrates, whereas the elasticity modulus gives the strength and elasticity of a solid. Moreover, VISCOTAQ® eliminates typical problems that occur during pipeline rehabilitation in the field and the problems of different phenomena that occur in practice.

## How VISCOTAQ solves typical pipeline corrosion problems

### Elimination of salt and osmosis problems...

Due to the very low permeability of water, it's a-polar behavior and extremely good adhesion on a molecular level, VISCOTAQ® inhibits water molecules from traveling to the surface of the substrate. In conjunction with its low viscous characteristics, no pressure can build behind the coating that could cause blisters and de-lamination.



## Manufactured under ISO 9001 and stringent quality controls...

VISCOTAQ® is manufactured under ISO 9001 standards in the USA from raw materials to end product. During this process, many quality control checks are in place to guarantee the highest quality. In addition to in-house quality control, VISCOTAQ® has been tested thoroughly by independent accredited laboratories.

## Shear stress problems, sliding...

To guarantee ultimate corrosion prevention, VISCOTAQ® remains in a pliable state during its lifetime. Therefore VISCOTAQ® has been extensively tested in conjunction with different protective outer layers to simulate shear stress. Unlike other products, VISCOTAQ® has shown excellent resilience against shear stress due to the combination of the appropriate outer layer as well as the viscous-elastic solid state of the material.

## FEATURES AND BENEFITS

- ▶ Viscous-elastic amorphous a-polar poly-olefin.
- ▶ Immediate adhesion to substrate without primer.
- ▶ Remains in pliable and flexible state.
- ▶ Permanent wetting characteristics.
- ▶ Wide temperature range up to +100°C/+202°F.
- ▶ Glass transition temperature <-40 °C/-40 °F).
- ▶ Self-healing characteristics.
- ▶ Eliminates MIC.
- ▶ No curing time.
- ▶ Forgiving on surface preparation (minimum commercial wire brush).
- ▶ Cohesive Fracture (peel test).
- ▶ 100% inert formulation, no solvents, no primers.
- ▶ Material remains in semi-solid state over entire lifetime.
- ▶ Virtually impermeable to moisture.
- ▶ No problems with salts or osmosis.
- ▶ Extremely low Cathodic disbondment values (0-3mm/0-0,12" to ASTM G8).
- ▶ Excellent dripping/sliding resistance due to high yield point.
- ▶ Weather resistant/UV resistant.
- ▶ Easy failure-free application.



### VISCOWRAP-ST

VISCOWRAP-ST is a viscous elastic self healing wrap coating for the protection of under and aboveground substrates against corrosion. VISCOWRAP-ST can be used in environments or on substrates with an ambient or surface temperature up to +71° C/+160° F.

### VISCOWRAP-HT

VISCOWRAP-HT is a viscous elastic self healing wrap coating for the protection of under and aboveground substrates against corrosion. The material can be used in environments or on substrates with an ambient or surface temperature up to +100° C/+212° F.

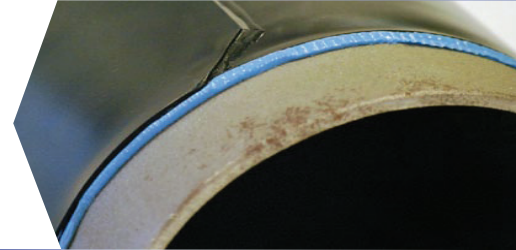


### VISCOPASTE

VISCOPASTE is viscous-elastic self healing paste for the protection of under and aboveground substrates against corrosion. The material can be used in environments or on substrates with an ambient or surface temperature up to +71° C/+160° F.

### VISCOSLEEVE

VISCOSLEEVE is a viscous elastic self healing two layer heat shrink sleeve system for the protection of field welded joints in heavy duty situations, like pipe laying vessels and pipeline systems. VISCOSLEEVE can be applied on joints with temperature conditions of +80° C/+95° C or +176° F/ +203° F onshore and offshore.

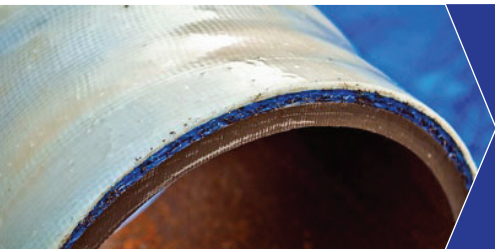
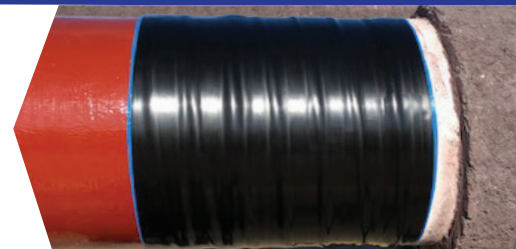


### EZ-WRAP

EZ WRAP is viscous elastic self healing wrap coating for the protection of under,above ground substrates against corrosion and water filtration. EZ-WRAP has a polyester top coating that can be painted. The material can be used in environments or on substrates with an ambient or surface temperature up to +65° C/+149° F.

### PE OUTER WRAP

VISCOTAQ PE outer wrap is used for the mechanical protection of VISCOTAQ material up to a temperature of +85° C/+185° F.



### VISCOSHIELD

VISCOSHIELD is a UV curing polyester and is used for situations where a higher mechanical or higher temperature up to +100° C/ +212° F are expected.

### POLYCURE

POLYCURE Is a water curing polyurethane and is used in situations where a higher mechanical impact or higher temperatures are expected. It can be used for under water application in combination with VISCOSEALANT.



### VISCOSEALANT

VISCOSEALANT is a viscous elastic corrosion preventive and sealing paste for sealing all type of openings and holes against the filtration of moisture and gases.