

VISCOTAQ[®] PE Outer wrap

Product data sheet

Product description

VISCOTAQ PE Outer Wrap is a Heavy Duty polyethylene backing in the form of a roll, calendered with an adhesive. The tape is used as an Outer Wrap for the mechanical protection of VISCOTAQ products against soil stress, back fill procedures and other forms of mechanical impact. Furthermore, it gives a continuous external pressure to the VISCOTAQ corrosion prevention inner material and accelerates the process of the formation of a homologue continuous inner coating. VISCOTAQ PE Outer Wrap is produced from MDPE/HDPE and is wrapped with a 50% overlap onto the VISCOTAQ corrosion prevention coating. The material is applied onto the substrate by hand or by means of a tape wrap machine.



General information

VISCOTAQ is a unique viscous-elastic non crystalline a-polar polyolefin for the protection of shaped and non-shaped substrates. VISCOTAQ offers the pipeline industry an unrivaled technology when it comes to corrosion prevention. Unlike other coatings VISCOTAQ always has a permanent and intimate contact with the surface of a substrate. The viscosity and elasticity modulus of the material are designed in such a way that the viscosity modulus provides permanent wetting characteristics hence forcing the material to flow into the pores and anomalies of the substrates whereas the elasticity modulus provides the strength and elasticity of a solid.

Use and application

- As a mechanical outer wrap up to surface temperatures of +85° C/+185° F
- Continuous operating temperature up to 85° C/+185° F
- Application temperature > +5° C/+41° F

Features

- Self adhesive MDPE/HDPE Outer Wrap
- Service temperature range -34° C/-29.2° F up to +85° C/+185° F
- Extremely flexible
- High aging resistance
- Overlap 50%
- UV resistant
- Strong adhesion to Viscowrap Inner Wrap
- Application by hand or machine
- Cold application, no open fire
- Excellent impact resistance
- Excellent abrasive resistance
- Standard color: in black

Measurement	Value	Method
Outer wrap PE		
Color	Black	N.A.
Total thickness	0,38 mm/15 mil or 0,50 mm/20 mil	ISO 9001
Backing thickness	0,254 mm for 0,38 mm	ISO 9001
	0,381 mm for 0,50 mm	ISO 9001
Adhesive thickness	0,127 mm for 0,38 mm	ISO 9001
	0,127 mm for 0,50 mm	ISO 9001
Application temperature	- 34° C/-29.2° F to +71° C/+159.8° F	N.A.
Application	3° C/5° F above the dew point	N.A.
	with tension	N.A.
	with minimum 50% overlap	N.A.
Water absorption	< 0,03 %	ASTM D570-98
Impact resistance 23° C	> 15 J	EN 12068
Service temperature	- 34° C/-29.2° F to +85° C/+185° F	N.A.
Adhesive strength 23° C	> 0,56 kg/cm	ASTM D1000
Tensile strength	5,36 kg/cm for 0,38 mm	ASTM D1000
	7,14 kg/cm for 0,50 mm	ASTM D1000
Elongation	250 % for 0,38 mm	ASTM D1000
	300 % for 0,50 mm	ASTM D1000

Outer Wrap PE In combination with Viscowrap HT (see also data sheet)

Total thickness	> 2,56 mm (depending upon PE thickness)	ISO 9001
Impact resistance	> 15 J (self healing)	EN 12068
Indentation	> 10N/mm ²	EN 12068
At 23° C	no holidays (< 5 min)	EN 12068
At 71° C	no holidays (< 120 min)	EN 12068
Roll widths	50mm/2", 75mm/3" or 100 mm/4"	ISO 9001
Roll length	30 meter/100 feet	ISO 9001
Inner core	carton, 3"	ISO 9001
Packaging	Cardboard boxes	N.A.
Storage	Indoor, dry. By preference not above 40 C	N.A.

Testing was performed by Charter Coating Service Laboratories, Calgary, Canada.
 Charter Coating is an ISO17025 certified laboratory.
 Copies of reports are available upon request.



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