

VISCOTAQ® COMBIWRAP-HT

Product data sheet

Product description

VISCOTAQ® COMBIWRAP-HT is a single-layer system in roll form. The roll consists of a heavy duty PVC backing carrying the impervious synthetic VISCOTAQ polymer. VISCOTAQ® COMBIWRAP-HT can be applied over-the-ditch or in-the-trench by means of a wrapping machine. No primer is needed prior to the application.

General information

VISCOTAQ® is a unique low viscous, amorphous, no crystalline, a polar, polyolefin coating. The material complies with ISO 21809-3 and easily overcomes many of the common issues that cause traditional coating to fail. VISCOTAQ® offers immediate adhesion without the need for primer, requires minimal surface preparation and forms a homologue, continuous, self-healing protective layer. The materials bonds at an intimate level by so called Van Der Waals forces and its low surface tension and creates a waterproof, impervious coating that can operate in a wide temperature range.



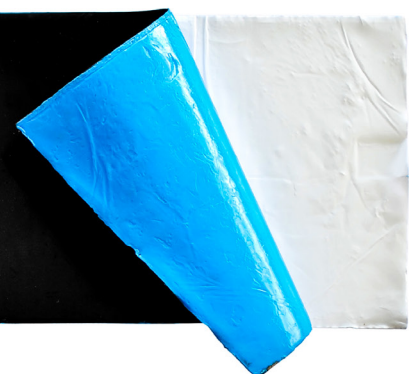
VISCOTAQ® chemistry is unique and designed such that the viscous component gives it permanent wetting characteristics. This forces the material to flow into the pores and anomalies of a substrate. The elastic component of the product gives it the strength and feeling of a solid. VISCOTAQ® always remains in a semi-solid state, provide high impact strength and allows for sufficient resistance against shearing. Ease of application and outstanding performance are what makes VISCOTAQ® an excellent technology for corrosion prevention. VISCOTAQ offers corrosion protection for pipelines on areas such as soil to air transitions, flanges, casing, girth welds, field repairs, water proofing of casing end seals and vaults in addition to having numerous other applications.

Use and application

- Temperature range -35° C/-31° F up to +80° C/+176° F
- Continuous operating temperature up to 80° C/+176° F
- Application temperature > +5° C/+41° F
- Recommended surface preparation SA 2-1/2 or SSPC/SP-10
- Minimum surface preparation SSPC/SP-2
- Application minimum +3° C/+37,4° F above dew point

Features

- Cold flow providing permanent flow into the pores of the substrate.
- Melting point +152,8° C/+307,04° F
- Impervious to moisture and gases
- Adhesion to the substrate without primer
- Remaining flexibility over decades
- Easy in use; can be cut and paste
- Permanent wetting characteristics
- Eliminates Microbiological Induced Corrosion (MIC)
- No curing time
- Extreme high chemical resistance
- No sensitivity to salts and osmosis
- Cohesive fracture
- 100% inert formulation: no reactive groups; no deterioration
- Glass transition temperature < -35° C/-31° F
- CD value < 6 mm (ASTM G8) at +23° C/+73,4° F
- Self healing in case of small damages



Measurement	Value	Method
Description	Low viscous, amorphous, non crystalline solid coating system.	NA
Mastic	Low viscous, amorphous, non crystalline solid polypropylene	NA
Backing (carrier)	Heavy Duty PVC	NA
Material phase	Solid with melting point	DSC
Density	1,1-1,3	DIN 53479
Operating temperature	-35° C/-31° F up to + 80° C/176° F	NA
Melting point	> + 130° C/266° F	DSC, ASTM E1356-03
Glass transition temperature	< -30° C/-22° F	DSC, ASTM E1356-03
Yield point	Yes	ISO 3219
Peel adhesion	Cohesive fracture, minimum coverage 95% after peel	ASTM 1000
Dripping behavior	No visual sagging at 80° C/176° F	ISO 21809-3
Water vapor permeability	< 4*10 ⁻⁴ /gram/day/m2/Pa	ASTM E96/96M-10
Water absorption	< 0,03 %	ISO 62
Volume resistivity	>2.2* 10 ¹³ Ω/cm	ASTM D257-07
Di-electric strength	≥17,5 kV per mm	ASTM D149-09
Impact strength	≥ 7 J for total coating system (self healing effect)	EN 12068. Annex H
UV weathering	Excellent resistance, no change	1000 hours ASTM D4587
Cathodic disbondment	Class A, ≤ 6 mm	ASTM G8-96
Flexibility	No cracking	CSA Z245-20-06 12.11
Thickness	Minimum 1,5 mm (total system)	ISO 4593:1993 (E)
Chemical resistance	Sulphuric acid 30% Nitric acid 10% Fosforic acid 20% Chloridic acid 10%	No change, no corrosion No change, no corrosion No change, no corrosion No change, no corrosion

Independent laboratory

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



Amcorr Products & Services
San Antonio, TX
United States of America
Toll free : 877-586.3710(USA only)
E-mail : info@amcorrusa.com
Web : www.amcorrusa.com

Invented and produced in the USA