ALLTER

ALTERNATE CORROSION PREVENTION SYSTEMS

TapeQote™ PE

PRODUCT DATA SHEET

Selection and Specification Data

Generic Type

Non-crystalline pure homopolymer Polyisobutene with integrated PE backing

Product Description

ALLTER TapeQote™ PE is a corrosion preventative tapewrap system comprising a PE backing and a viscoelastic fibre-reinforced high-performance corrosion barrier material to protect carbon steel, stainless steel, ductile iron and non-ferro metal substrates. The material is specific designed for submersed and immersed services from -45 up to +70°C (-49 up to 158°F) and complies to ISO 21809-3: 2016 and ISO12944: 2018 with a suitable mechanical protection. Examples of applications are buried and above ground pipelines, girth-weld joints, elbows, tees, reducers,bends, flanges, insulated pipelines, above ground structures etc. found in variousindustries such as in petrochemical facilities, chemical plants, Offshore, power plants, refineries etc.

Features

- Non-toxic material, safe for humans, animals and the environment
- Excellent barrier properties
- Flexible PE backing
- Material remains flexible, even at lower temperatures
- Excellent adhesion to carbon steel and stainless steel
- Excellent adhesion to ductile iron and non-ferro metals
- Excellent adhesion on pipeline coatings like Epoxy, PU, FBE, PE, PP etc.
- Surface tolerant material (minimum St2/SSPC-SP2)
- Prevents stress corrosion cracking (SCC) of stainless steel
- Service temperature from -45 up to +70°C (-49 up to 158°F)
- Can be applied on hot substrates up to max. 70°C (158°F)
- Can be applied by hand or Wrapping machine
- Self-healing capabilities
- No need for curing

Color

Black (PE backing)

Finish

NA

Primer

Self-priming

TapeQote™ PE

Dry Film Thickness	1500micron nominal
Volume Solids	100%
Theoretical Coverage Rate	1m^2 per 100mm. x 10m. roll at 1500micron DFT ex. side by side overlap.
VOC	0 g/l (0.00 lbs/gal)
Temperature Resistance	from -45 up to +70°C (-49 up to 158°F)
Topcoats	For Extra Mechanical / impact protection, Allter-Tape™ PVC, PE, ALLTER Glass Shield, ALLTER Fusion Tape.

Substrate and Surface Preparation

General	Remove all dirt, grease, mill scale, loose rust and any other contaminants that can reduce adhesion according SSPC-SP1 solvent cleaning, followed by the recommended substrate preparation as listed below.
Carbon Steel	Minimum St2/St3 (SSPC-SP2/SP3). A specific surface profile (Rz) is not required.
Stainless Steel	Minimum St2/St3 (SSPC-SP2/SP3). A specific surface profile (Rz) is not required.

Mixing and Thinning

Mixing	No mixing. Ready to use material.
Thinning	No thinning. Ready to use material.

Application Equipment

General	This material can be simply applied by hand or (semi) automated equipment.
Application	Remove a small part of the release liner and stick the material onto the prepared substrate. Further removing the release liner during application, applying the material with tension and press the material firmly onto the substrate to avoid air entrapment. Application must start with one (1) complete circumferential wrap around the protected object. The material can be applied spiral-wrap or cigarette-wrap with a minimum side by side overlap of 50%. When a new roll of material is used, a minimum overlap of 50mm. (2”) to the previous roll is recommended. When finishing the application, finish with one (1) complete circumferential wrap around the protected object.
Airless spray	NR
Brush and roller	NR

TapeQote™ PE

Application Conditions

	Condition	Material	Surface	Ambient	Rel. Humidity
	Minimum	5°C (41°F)	5°C (41°F)	5°C (41°F)	0%
	Maximum	40°C (104°F)	70°C (158°F)	50°C (122F)	95%
	This material requires the substrate temperature to be 3°C (5°) above dew point				

Curing Schedule				
	Temperature	**Touch dry**	**Dry to recoat**	**Dry to handle**
	5°C (41°F)	NR	NR	NR
	40°C (104°F)	NR	NR	NR
	50°C (122°F)	NR	NR	NR
	70°C (158°F)	NR	NR	NR
	Note: This material does **not** cure.			

Cleanup and Safety Information

Cleanup NR

Safety This material does not contain any hazardous ingredients. See SDS for specific information.

Packaging, Handling and Storage

Shelf life Unlimited at 23°C (73°F)

Storage temperature and humidity 5 - 50°C (41-122°F).
95%.

Storage Material should be stored indoors, clean and dry, kept away from direct sunlight.

Shipping weight					
	Dimension	**Weight per Roll**	**Weight per Roll**	**Rolls per Carton**	**Cartons per Pallet**
	50mm. x 10m. (2” x 33’)	1.30 kg	2.86 lbs	12	360
	100mm. x 10m. (5” x 33’)	2.60 kg	5.73 lbs	6	180
	100mm. x 20m. (5” x 66’)	5.22 kg	11.50 lbs	2	128
	150mm. x 10m. (6” x 33’)	3.90 kg	8.59 lbs	2	128
	200mm. x 10m. (8” x 33’)	5.22 kg	11.50 lbs	2	96
	250mm. x 10m. (10” x 33’)	6.50 kg	14.33 lbs	2	96
	300mm. x 10m. (12” x 33’)	7.80 kg	17.19 lbs	2	80

Flash point (ISO 1523) NR

DATE: February 2023

DISCLAIMER: Allter b.v. warrants that the product(s) represented within conform(s) to its/their chemical and physical description and is appropriate for the use as stated on the respective technical data sheet when used in compliance with Allter b.v's written instructions. Since many installation factors are beyond the control of Allter b.v. the user is obligated to determine the suitability of the products forthe intended use and assume all risks and liabilities in connection herewith. Allter b.v.'s liability is stated in the standard terms and conditions of sale. Allter b.v. makes no other warranty either expressed or implied. All information contained in the respective technical data sheet(s) should be used as a guide and is subject to changewithout notice. This document supersedes all previous revisions. Please see revision date on the left. Allter® is a registered trademark.