



**ALLTER**

ALTERNATE  
CORROSION  
PREVENTION  
SYSTEMS



# Visco- Rite™ 70HB

## PRODUCT DATA SHEET

### Selection and Specification Data

**Generic Type** Non-crystalline pure homopolymer Polyisobutene

**Product Description** Visco-Rite™70HB is a viscoelastic fibre-reinforced high-performance corrosion barrier material to protect corroded 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 pipelines, girth-weld joints, elbows, tees, reducers, bends, flanges, insulated pipelines, above ground structures etc. found in various industries 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
  - Non-woven fibre-reinforced material
  - Complies to ISO 21809-3: 2016 and ISO 12944: 2018
  - 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** Light blue

**Finish** NA

**Primer** Self-priming

# Visco-Rite™ 70HB

<b>Dry Film Thickness</b>	1800micron (72mils) nominal
<b>Volume Solids</b>	100%
<b>Theoretical Coverage Rate</b>	1m <sup>2</sup> per 100mm. x 10m. roll at 1800micron (60mils) DFT ex. side by side overlap of 10mm. (3/8")
<b>VOC</b>	0 g/l (0.00 lbs/gal)
<b>Temperature Resistance</b>	from -45 up to +70°C (-49 up to 158°F)
<b>Topcoats</b>	Alter-Tape™ PVC, PE, TPU, PUA, GRE and GRP

## Substrate and Surface Preparation

<b>General</b>	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.
<b>Carbon Steel</b>	Minimum St2/St3 (SSPC-SP2/SP3). A specific surface profile (Rz) is not required.
<b>Stainless Steel</b>	Minimum St2/St3 (SSPC-SP2/SP3). A specific surface profile (Rz) is not required.

## Mixing and Thinning

<b>Mixing</b>	No mixing. Ready to use material.
<b>Thinning</b>	No thinning. Ready to use material.

## Application Equipment

<b>General</b>	This material can be simply applied by hand or (semi) automated equipment.
<b>Application</b>	<p>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 without 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.</p> <p>The material can be applied spiral-wrap or cigarette-wrap with a minimum side by side overlap of 10mm. (3/8").</p> <p>When a new roll of material is used, a minimum overlap of 50mm. (2") to the previous roll is recommended.</p> <p>When finishing the application, finish with one (1) complete circumferential wrap around the protected object.</p>
<b>Airless spray</b>	NR
<b>Brush and roller</b>	NR

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## 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 (122°F)	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 <b>not</b> 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	13.00 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

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**DATE: January 2020**

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