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Cancels and replaces: 12/06/2018  
Code : 187640M  
Manufacture source: Courchelettes (59-France)  
Technical ref: FT AXTER ES2 ASTM

# PRODUCT DATA SHEET

## COLETANCHE ES 2 HFA



### DESCRIPTION

COLETANCHE ES 2 HFA is an SBS elastomeric modified bituminous geomembrane.

### USE

Moderate level of mechanical resistance, for use an environmental protection and groundworks waterproofing, in particular :

- To cover landfill,
- Hydraulic ponds,
- Containment of Industrial liquid wastes,
- Canals ,
- Contaminated land.

The membrane has the same friction angle on both sides.

Product use must be validated by Axter

### APPLICATION METHOD

By torch welding or other similar technique.

### STORAGE

Rolls must not be stored directly on the ground. Provide suitable supports (blocks, slides, wooden planks) with a minimum height of 1.2 ft to be placed under the ends of the mandrel.

### COMPOSITION

(indicative)

Reinforcement (oz/yd <sup>2</sup> ) :	Glass mat	1.5
Reinforcement (oz/yd <sup>2</sup> ) :	Non-woven geotextile	7.4
Binder (oz/yd <sup>2</sup> ) :	Elastomeric SBS	126.8
Surface finish (oz/yd <sup>2</sup> ) :	Sand	7.4
Under surface finish (oz/yd <sup>2</sup> ) :	Peel-off silicone film	1.2

### CHARACTERISTICS

		STANDARD	UNITS	AVERAGE	Minimum
Dimensions	Length	-	ft	262	259
	Width		ft	16.7	16.4
Thickness (on finished product)		ASTM D 5199	mils	157	142
Surface mass		ASTM D 3776	oz/yd <sup>2</sup>	143	127
Resistance to tearing	Longitudinal	ASTM D 4073	lbf	185	139
	Cross direction			157	118
Tensile properties : maximum tensile strength	Longitudinal	ASTM D 7275	lbf/in.	154	116
	Cross direction			137	86
Tensile properties : elongation	Longitudinal		%	60	45
	Cross direction			60	45
Static Puncture		ASTM D 4833	lbf	119	107
Flexibility at low temperature	Longitudinal	ASTM D 5147	°F	-4	5
	Cross direction			-4	5
Water permeability (liquid tightness)		ASTM E 96	m/s	6.10 <sup>-14</sup>	<
Gas permeability (gas tightness)		ASTM D 1434-82	m <sup>3</sup> /(m <sup>2</sup> .j.atm)	2.10 <sup>-4</sup>	<

NOTE: AXTER COLETANCHE INC. may modify the composition and/or utilisation of its products without prior notice. Consequently orders will be filled according to the latest specification.

