

# PRODUCT DATA SHEET

## COLETANCHE ES 1 HFA



### DESCRIPTION

COLETANCHE ES 1 HFA is an SBS elastomeric modified bituminous geomembrane.

### USE

Very low level of mechanical constraints, covered with top soil, for use as an environmental protection and groundworks waterproofing, in particular :

- Low water basin
- Ditches,
- Landfill covers,
- Waste tip covers.

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 35 cm to be placed under the ends of the mandrel.

### COMPOSITION

(indicative)

Reinforcement (g/m <sup>2</sup> ) :	Glass mat	50
Reinforcement (g/m <sup>2</sup> ) :	Non-woven geotextile	200
Binder (g/m <sup>2</sup> ) :	Elastomeric SBS	3800
Surface finish (g/m <sup>2</sup> ) :	Sand	250
Under surface finish (g/m <sup>2</sup> ) :	Peel-off silicone film	40

### CHARACTERISTICS

		STANDARD	UNITS	AVERAGE	Min
Dimensions	Length	-	m	100	99
	Width		m	5.10	5.01
Thickness (on finished product)		ASTM D 5199	mm	3.50	3.10
Surface mass		ASTM D 3776	kg/m <sup>2</sup>	4.20	3.70
Resistance to tearing	Longitudinal	ASTM D 4073	N	750	563
	Cross direction			500	375
Tensile properties : maximum tensile strength	Longitudinal	ASTM D 7275	kN/m	22	16.5
	Cross direction			18	13.5
Tensile properties : elongation	Longitudinal	ASTM D 7275	%	60	45
	Cross direction			60	45
Static Puncture		ASTM D 4833	N	450	405
Flexibility at low temperature	Longitudinal	ASTM D 5147	°C	-20	-15
	Cross direction			-20	-15
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.

