

PRODUCT DATA SHEET

COLETANCHE ES 1 HFA



Certified to
NSF/ANSI 61
Compliant for use in contact with
potable water as per water contact type.

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 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 ²) :	Glass mat	50
Reinforcement (g/m ²) :	Non-woven geotextile	200
Binder (g/m ²) :	Elastomeric SBS	3800
Surface finish (g/m ²) :	Sand	250
Under surface finish (g/m ²) :	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 ²	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		%	50	35
	Cross direction			50	35
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 ⁻¹⁴	
Gas permeability (gas tightness)		ASTM D 1434-82	m ³ /m ² /j/atm	< 3.10 ⁻¹⁴	

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.

