

PRODUCT DATA SHEET

COLETANCHE ES 3 HFA



DESCRIPTION

COLETANCHE ES 3 HFA is an SBS elastomeric modified bituminous geomembrane.

USE

Extreme level of mechanical resistance, for use as environmental protection and groundworks waterproofing, in particular :

- Railways, directly under ballast,
- Dams

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 ²) :	Glass mat	1.5
Reinforcement (oz/yd ²) :	Non-woven geotextile	8.8
Binder (oz/yd ²) :	Elastomeric SBS	141.6
Surface finish (oz/yd ²) :	Sand	7.4
Under surface finish (oz/yd ²) :	Peel-off silicone film	1.2

CHARACTERISTICS

		STANDARD	UNITS	AVERAGE	Min
Dimensions	Length	-	ft	213	210
	Width		ft	16.7	16.4
Thickness (on finished product)		ASTM D 5199	mils	189	165
Surface mass		ASTM D 3776	oz/yd ²	171	147
Resistance to tearing	Longitudinal	ASTM D 4073	lbf	214	160
	Cross direction			191	143
Tensile properties : maximum tensile strength	Longitudinal	ASTM D 7275	lbf/in.	188	142
	Cross direction			166	124
Tensile properties : elongation	Longitudinal		%	60	45
	Cross direction			60	45
Static Puncture		ASTM D 4833	lbf	128	115
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 ⁻¹⁴	<
Gas permeability (gas tightness)		ASTM D 1434-82	m ³ /(m ² .j.atm)	2.10 ⁻⁴	<

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.

