

PRODUCT DATA SHEET

COLETANCHE ES 1 HFA

DESCRIPTION

COLETANCHE ES 1 HFA is an SBS elastomeric modified bituminous geomembrane with Ring and Ball melting point of 115°C (EN 1427)

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	VALUES	Minimum	
Dimensions	Length	EN 1848-1	m	100	99	
	Width		m	5.10	5.01	
Thickness (on finished product)		EN 1849-1	mm	3.50	3.10	
Surface mass		EN 1849-1	kg/m ²	4.20	3.70	
Tensile properties : maximum tensile strength	Longitudinal	EN 12311-1	N/50 mm	800	550	
	Cross direction			600	400	
Tensile properties : elongation	Longitudinal	EN 12311-1	%	45	30	
	Cross direction			45	30	
Flexibility at low temperature		EN 1109	°C	-20	-16	
Static Puncture	Resistance	EN ISO 12236	kN	2.7	2.4	
	Move		mm	50	40	
Water permeability (liquid tightness)		EN 14150	m ³ /m ² /j	1.10 ⁻⁷	<	
Gas permeability (gas tightness)		ASTM D 1434-82	m ³ /(m ² .j.atm)	2.10 ⁻⁴	<	
Dangerous substances consult : http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm		-	-	None		
Durability						
Oxidation	Tensile strength according to EN 12311-1	Maximum tensile strength	EN 14575	%	100	75
		Elongation			100	75
Weathering	retained tensile strength according to EN 12226	Maximum tensile strength	EN 12224	%	100	75
		Elongation			100	75

The manufacturer reserves the right to modify, at any time, the characteristics of its products.

