

## COLETANCHE ES 1

### DESCRIPTION

COLETANCHE ES 1 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 :

- Ditches,
- Landfill covers,
- Waste tip covers, of moderate height.

Product use must be validated by Axter.

### APPLICATION METHOD

Torched

### STORAGE

Rolls must not be stored directly on the ground. They must be laid supported on concrete blocks, trestles or timber beams) min 35 cm height, placed under the mandrel ends.

### COMPOSITION

(indicative)

Reinforcement (gm/m <sup>2</sup> ) :	Glass mat	50
Reinforcement (gm/m <sup>2</sup> ) :	Non-woven geotextile	200
Binder (gm/m <sup>2</sup> ) :	Elastomeric SBS	3830
Surface finish (gm/m <sup>2</sup> ) :	Sand	217
Under surface finish (gm/m <sup>2</sup> ) :	Polyester antiroot film	15

### CHARACTERISTICS

	STANDARD	UNITS	VALUES	Tolerance	
				Min	Max
Dimensions	EN 1848-1	Length	89	≥	
		Width	5.01	≥	
Thickness (on finished product)	EN 1849-1	mm	3.50	3.20	
Surface mass	EN 1849-1	kg/m <sup>2</sup>	4.20	3.70	
Resistance to tearing (nail shank)	EN 12310-1	Longitudinal	400	300	-
		Cross direction	500	400	-
Tensile properties : maximum tensile strength	EN 12311-1	Longitudinal	800	550	
		Cross direction	600	440	
Tensile properties : elongation	EN 12311-1	Longitudinal	55	40	
		Cross direction	55	40	
Flexibility at low temperature	EN 1109	Surface	-20	≤	
		Under surface	-20	≤	
Static Puncture	EN ISO 12236	Resistance	3	2.7	
		Move	50	40	
Water permeability (liquid tightness)	EN 14150	l/m <sup>2</sup>	<0.1		
Gas permeability (gas tightness)	ASTM D 1434	cm <sup>3</sup> /(m <sup>2</sup> .24h/atm)	<140		
Dangerous substances consult : <a href="http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm">http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm</a>	-	-	None		
<b>Durability</b>					
Oxidation	EN 14575	Tensile strength according to EN 12311-1	100	75	
		Elongation	100	75	
Weathering	EN 12224	Maximum tensile strength	in progress	-	-
		Elongation	in progress	-	-
Root penetration	EN 14416	-	Pass		

NA=not applicable due to use of product.  
NPD : No performance determined

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