

COLETANCHE ES 4

DESCRIPTION

COLETANCHE ES 4 is an SBS elastomeric modified bituminous geomembrane with Ring and Ball melting point of 115°C (EN 1427)

USE

Extreme level of mechanical resistance, for use as environmental protection and droungworks waterproofing (aggressive materials, reinforced precautions), in particular :

- Railways, directly under ballast,
- Dams,
- Confinement of radioactive waste.

Product use must be validated by Axter.

APPLICATION METHOD

Torched

STORAGE

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

COMPOSITION

(indicative)

Reinforcement (gm/m ²) :	Glass mat	50
Reinforcement (gm/m ²) :	Non-woven geotextile	400
Binder (gm/m ²) :	Elastomeric SBS	5430
Surface finish (gm/m ²) :	Sand	217
Under surface finish (gm/m ²) :	Polyester antiroot film	15

CHARACTERISTICS

	STANDARD	UNITS	VALUES	Tolerance	
				Min	Max
Dimensions	EN 1848-1	Length	54.00	≥	
		Width	5.01	≥	
Thickness (on finished product)	EN 1849-1	mm	5.60	5.10	
Surface mass	EN 1849-1	kg/m ²	6.40	5.90	
Resistance to tearing (nail shank)	EN 12310-1	Longitudinal	550	450	-
		Cross direction	600	500	-
Tensile properties : maximum tensile strength	EN 12311-1	Longitudinal	1600	1150	
		Cross direction	1400	1000	
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	4	3.5	
		Move	50	40	
Water permeability (liquid tightness)	EN 14150	l/m ²	<0.1		
Gas permeability (gas tightness)	ASTM D 1434	cm ³ /(m ² .24h/atm)	<137		
Dangerous substances consult : http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm					
Durability					
Oxidation	EN 14575	Tensile strength according to EN 12311-1	100	75	
		Maximum tensile strength			
Leaching (water soluble)	EN 14415	Elongation	NPD	-	-
		Maximum tensile strength	in progress	-	-
Weathering	EN 12224	Elongation	in progress	-	-
		Maximum tensile strength			
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.