

COLETANCHE ES 3

DESCRIPTION

COLETANCHE ES 3 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 groundworks waterproofing, 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	300
Binder (gm/m ²) :	Elastomeric SBS	4780
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	64.00	≥			
		Width	5.01	≥			
Thickness (on finished product)	EN 1849-1	mm	4.80	4.30			
Surface mass	EN 1849-1	kg/m ²	5.80	5.00			
Resistance to tearing (nail shank)	EN 12310-1	Longitudinal	500	400	-		
		Cross direction	550	450	-		
Tensile properties : maximum tensile strength	EN 12311-1	Longitudinal	1400	1000			
		Cross direction	1200	850			
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	3.9	3.2			
		Move	50	40			
Water permeability (liquid tightness)	EN 14150	l/j/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			-	-	None		
Durability							
Oxidation	Tensile strength according to EN 12311-1	Maximum tensile strength	EN 14575	%	100	75	
		Elongation	EN 14415	%	NPD	-	-
Leaching (water soluble)	retained tensile strength according	Maximum tensile strength	EN 12224	%	in progress	-	-
		Elongation			in progress	-	-
Weathering			EN 12224	%	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.