

## PRODUCT DATA SHEET

# COLETANCHE ES 3

### DESCRIPTION

COLETANCHE ES 3 is an SBS elastomeric modified bituminous geomembrane with Ring and Ball melting point of 115°C (according to EN 1427)

### USE

Extreme level of mechanical resistance, for use as environmental protection and groundworks waterproofing, in particular :  
- Railways, directly under ballast,  
- Dams

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 <sup>2</sup> )	Glass mat	50
Reinforcement (g/m <sup>2</sup> )	Non-woven geotextile	300
Binder (g/m <sup>2</sup> )	Elastomeric SBS	4800
Surface finish (g/m <sup>2</sup> )	Sand	250
Under surface finish (g/m <sup>2</sup> )	Polyester antiroot film	15

### CHARACTERISTICS

		STANDARD	UNITS	AVERAGE	Min
Dimensions	Length	EN 1848-1	m	65	64
	Width		m	5.10	5.01
Thickness (on finished product)		EN 1849-1	mm	4.80	4.20
Surface mass		EN 1849-1	kg/m <sup>2</sup>	5.80	5.00
Tensile properties : maximum tensile strength	Longitudinal	EN 12311-1	N/50 mm	1400	1000
	Cross direction			1200	850
Tensile properties : elongation	Longitudinal	EN 12311-1	%	45	35
	Cross direction			45	35
Flexibility at low temperature		EN 1109	°C	-20	-16
Static Puncture	Resistance	EN ISO 12236	kN	3.9	3.2
	Move		mm	50	40
Water permeability (liquid tightness)		EN 14150	m <sup>3</sup> /m <sup>2</sup> /j	1.10 <sup>-7</sup>	<
Gas permeability (gas tightness)		ASTM D 1434-82	m <sup>3</sup> /(m <sup>2</sup> .j.atm)	2.10 <sup>-4</sup>	<
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	

### Durability

Oxidation	Tensile strength according to EN 12311-1	Maximum tensile strength	EN 14575	%	100
		Elongation			100
Weathering	retained tensile strength according to EN 12226	Maximum tensile strength	EN 12224	%	100
		Elongation			100

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

