

PARADIENE S R4

DESCRIPTION AND SCOPE OF APPLICATION

This product is a very high performance reinforced SBS elastomeric bitumen sheet for waterproofing works.

This product is for use as :

- underlayer of a two-layer, self protected roof waterproofing system,
- underlayer or top layer of a two-layer roof waterproofing system under heavy protection (gravel ballast, slabs on adjustable supports, etc.),
- vapour barrier on concrete or wooden deck,

It can be also used for miscellaneous works. In either case, this product must be used in accordance with the relevant technical specifications.

COMPOSITION

Main surface	sanded
Blend	filerized SBS (Styrene-Butadiene-Styrene) elastomeric bitumen
Reinforcement	non-woven polyester 160g/m ²
Underface	sanded or thermofusible film

DIMENSIONAL CHARACTERITICS

	Nominal value	Critical value
Thickness on the longitudinal selvedge (mm)	(N/A)	(N/A)
Thickness on the main surface (mm)	2.6	2.5
Longitudinal selvedge width (mm)	(N/A)	(N/A)
Weight / m ² (kg/m ²)	3.33	3.16
Weight / roll (kg)	33.6	31.9
Roll length and width (m)	10 x 1	9.90 x 0.99

ISO 9001 REFERENCE DOCUMENT

. Our company has been awarded the ISO 9001 certificate for all its establishments in France.

. The french product technical data sheet is the ISO 9001 reference document.



MECHANICAL CHARACTERISTICS

KIND OF TEST	Reference Norme	Units	Nominal Values	Critical Values
Tensile strength at break	EN 12311-1	N/50mm	700 x 550	590 x 500
Elongation at break	EN 12311-1	%	40 x 45	35 x 40
Cold temperature flexibility	EN 1109	°C	≤ - 20	≤ - 15
Heat flow test	EN 1110	°C	≥ 100	≥ 100
Dimensional stability	EN 1107-1	%	≤ - 0,5	
Static puncture resistance	EN 12730	kg	20	

PACKAGING

- . This product is packaged in rolls set up vertically on pallet or wooden box.
- . It must be stored vertically under shelter, away from heat sources.
- . It is not classified as dangerous according to the International Regulation. (ADR, RID IATA and RTMDR). Customs tariff number : 680710100000A
- . Rolls quantity per truck pallet : 28
- . Rolls quantity per container pallet : 30
- . Rolls quantity per wooden box : 28 (film/film) or 30 (sand/film)

GENERALITIES ABOUT APPLICATION

Overlaps :

The longitudinal laps and the end laps must be at least 60mm wide. The longitudinal laps must be staggered by at least 200mm in relation to those in the underlayer. The end laps must be staggered by at least 300mm in relation to those in the underlayer. The end laps in the same layer should not be aligned but must be staggered by at least 500mm between adjacent sheets.

Application:

Generally, the layer with the stronger reinforcement is used as underlayer to give a mechanical protection during all the work period.

This product used as underlayer or as vapour barrier must be applied according to the following methods of attachment regarding the support : fully bonding with hot bitumen or by torching; partial bonding by means of a perforated felt ; partial bonded by spots of cold-applied bitumen based adhesive with bonded laps (in this case, metal-faced cap sheet is not allowed) ; nailing on wooden deck with bonded laps ; loose laying with bonded laps.

This product used as top layer is fully bonded with hot bitumen on an underlayer with a sand finished upperface or is fully torched on a underlayer with a thermofusible film on upperface. In this last case, the total thickness of bitumen of the two-layer system must be at least 5mm.

Slope :

Waterproofing system under heavy protection :

- On concrete deck and cellular concrete deck, the slope must be between 1% and 5%. However, on concrete deck, flat surface (0% slope) is allowed for system with gravel ballast or with slabs on adjustable supports.
- On steel deck or wooden deck, the slope must be between 3% and 5%.

Self protected waterproofing system (granular-faced) :

- On concrete deck, the slope must be > or = 0%
- On cellular concrete deck or wooden deck, the slope must be > 1%
- On steel deck, the slope must be > 3%

- For slope > 20%, partial bonding by spots of cold-applied bitumen based adhesive is not used.
- For slope > or = 20% , see the technical data sheet of the cap sheet (fixing specifications).

Self protected waterproofing system (metal-faced) :

- On all deck, the minimum slope is 3%
- For slope > or = 20% , see the technical data sheet of the cap sheet (fixing specifications).

NOTE

- 1) Where 2 values for given characteristics are shown, the first is for the longitudinal direction and the second is for the cross direction.
- 2) Average values are conform to UEAtc standard and EN 13707. The manufacturing tolerances conform to UEAtc standards. Some slight variations can be noticed as the values are based on the average values obtained from several factories.
- 3) The information about purpose and methods of application of the product does not prevail against local regulations and practices. In case of doubt, do not hesitate to contact the Siplast's Technical Department.
- 4) Siplast reserves the right to modify its composition as a result of technics and experiments improvements. This product data sheet supersedes the previous edition, to obtain the up-dated technical data sheet, please contact the Siplast's Technical Department.
- 5) This document is only a product technical data sheet, regarding each waterproofing design, please, consult the concerned technical agreement and in case of doubt contact the Siplast's Technical Department.