

Product Technical Information

ITA/349

Rev.15 - 29/04/16

Page 1/3

PARAFOR M4S

Product Description and uses

Parafor M4S is very high performance polyester reinforced SBS elastomeric bitumen membrane.

Parafor M4S is approved for waterproofing works as single layer system for roofs under heavy protection, as base layer of a double-layers system for not accessible exposed roofs, technical roofs and green roofs. This product is designed for both new works and refurbishment works on roofing approved substrates.

Parafor M4S is approved for use on tanking basement waterproofing systems.

Parafor M4S is approved for miscellaneous works.

This product must be used in accordance with the relevant technical specifications.

Composition

Top surfacing: Silica Parting Agent.

Bitumen compound: SBS (Styrene-Butadiene-Styrene) elastomeric bitumen

Reinforcement: Polyester 180 gr/m²

Back surfacing: polyethylene film



Dimensions

Value	Nominal
Thickness on longitudinal selvedge (mm)	4.0
Thickness main surface (mm)	4.0
Selvedge width (mm)	90
Roll length and width (m)	10 x 1

Packaging

Rolls quantity per truck pallet	20
Rolls quantity per container pallet	25
Rolls quantity per wooden box	20
Nominal weight / m ² (kg/m ²)	4.88
Nominal weight / roll (kg)	48.8

ISO 9001 REFERENCE DOCUMENT

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

Our company reserves the right to modify its composition as a result of technological and experimental improvements.

To obtain the up-date technical data sheet, please contact Siplast



Product Technical Information

ITA/349
Rev.15 - 29/04/16
Page 2/3

Parafor M4S

Physical and Mechanical Properties

According with EN 13707

Property (as Manufactured)	Test Method	Units	Nominal values
Tensile strength at max	EN 12 311-1	N/50mm	850 x 600
Elongation at max	EN 12 311-1	%	40 x 49
Nail tearing resistance	EN 12 310-1	N	>200 x 220
Cold temperature flexibility	EN 1109	°C	≤ - 20
Heat flow test	EN 1110	°C	≥ 100
Dimensional stability	EN 1107-1	%	≤ - 0.5
Static Puncture resistance (soft substrate)	EN 12730 A	kg	20
Static Puncture resistance (hard substrate)	EN 12730 B	kg	20
Static Puncture resistance	NF P 84-352	Kg	25 (L4)
Impact resistance (hard substrate)	EN 12691-A	mm	1000
Impact resistance (soft substrate)	EN 12691 B	mm	1250
Dynamic Puncture resistance	NF P 84-353	J	20 (D3)
Lap shear strength	EN 12317-1	N/50cm	600 side lap 900 head lap
Waterproofing	EN 1928	-	Pass

According with ASTM D 5147

Property (as Manufactured)	Test Method	Units	Nominal values
Tensile strength at max	ASTM D 5147 section 6	kN/m	13.5 x 10.8
Elongation at max	ASTM D 5147 section 6	%	54 x 60
Nail tear resistance	ASTM D 4073	N	600x480
Cold temperature flexibility	ASTM D 5147 section 11	°C	≤ - 20
Heat flow test	ASTM D 5147 section 15	°C	≥ 100
Dimensional stability	ASTM D 5147 section 10	%	≤ - 0.5

Product Technical Information

ITA/349

Rev.15 - 29/04/16

Page 3/3

Other information

Values	Where 2 values for given characteristics are shown, the first is for longitudinal direction and the second is for the cross direction.
Tolerances	The average values derived from standard tests and are subject to the usual production variations. Some slight variations can be noticed as the values are based on the average values obtained from several plants.
Modification(s)	Our company reserves the right to modify its composition as a result of technologic and experiments improvements. This product data sheet supersedes the previous edition, to obtain the up-date technical data sheet, please contact our technical department.
Hazardous classification	It is not classified as dangerous according to the international regulation (ADR, RID, IATA, et RTMDR)
Divers	This product is only a product technical data sheet, regarding each waterproofing design, please, consult the concerned technical agreement and in case of doubt contact our technical department.
Storage	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.

Generalities

Application	The product is torch applied.
Overlaps	- Minimum 80mm for side laps. - Minimum 110mm for head laps, staggered a minimum 300 mm from beside joints.
Slopes	- From 1% to 5% as single ply on ballasted roofs - Zero slope allowed on double layer system on ballasted roofs. - Minimum 3% slope on steal deck roofs - Minimum 1% on non-accessible and technical exposed roofs
Approved substrates and systems	- Siplast insulated steel roof deck. - Siplast insulated and non-insulated concrete roof deck. Concrete substrates are primed with Siplast Primer 0.3lt/m2. - Siplast non-insulated wooden roof deck in combination with SCR Alliance base layer mechanically fixed.
Approved insulation substrates	- Mineral Wool or Perlite bitumen faced insulation boards as direct substrates.
Roof Upstands design	- base waterproofing layer for exposed upstands, in combination with Paradiat S, Parafor 30GS or Parafor Solo GS - double waterproofing layer for non-exposed upstands. - Flashings with Solin CE 63mm or 73mm aluminium profiles with PU mastic sealant Parathane mastic.