

Product Technical Information

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PARAFOR PONTS

Product Description and uses

Parafor Ponts is a very high performance SBS elastomeric bitumen membrane for waterproofing works.

Parafor Ponts is approved for concrete and steel bridge decks waterproofing works as a fully adhered torch applied system.

Parafor Ponts is approved for parkings.

Parafor Ponts is approved for external tunnels waterproofing works.

Parafor Ponts can be applied using Jet Ponts installation machine and Mini Jet Ponts installation machine.

Parafor Ponts is equipped with **Echo-Detect system** that allows to detect the exact membrane position afterwards the product is installed and covered with a wearing course, using eco-radar technology. This special techniques permits to save the existing waterproofing during the wearing course replacement operations.

Product Approvals:

Parafor Ponts is approved by CEREMA (SETRA) independent body for bridge deck waterproofing as a fully adhered system together with Siplast Primer (Technical Agreement Parafor Ponts), as a fully adhered system together with Fordeck epoxy-resin and Paracoating Deck liquid waterproofing for upstands and details (Technical Agreement Parafor Ponts FP) and as a fully adhered system together with EIF Siplast Primer and Paracoating Deck liquid waterproofing for upstands and details (Technical Agreement Parafor Ponts SPP). The bridge bituminous wearing course (bituminous concrete/macadam or others) is directly applied over the membrane.

Parafor Ponts is approved by CETU independent body for external tunnel waterproofing works.

Parafor Ponts is approved under a Technical Agreement ETN (New Technical Procedure) for use in Siplast non-insulated concrete deck parking systems.



Jet Pont Machine

Composition

Top surfacing: white mineral granules
Bitumen compound: SBS (Styrene-Butadiene-Styrene) elastomeric bitumen
Reinforcement: non-woven Polyester 180gr/m ²
Back surfacing: macro-perforated polyethylene film

Dimensions

	Nominal
Thickness on longitudinal selvedge (mm)	4.0
Selvedge width (mm)	110
Roll length and width (m)	8 x 1

Packaging

Rolls quantity per truck pallet	20
Rolls quantity per container pallet	23
Rolls quantity per wooden box	20
Nominal weight / m ² (kg/m ²)	6.26
Nominal weight / roll (kg)	48.9

Jumbo Rolls for Jet Pont installation machine

Rolls quantity per container pallet	1
Nominal roll length (m)	150
Nominal roll weight (kg)	940

Rolls for Mini Jet Pont installation machine

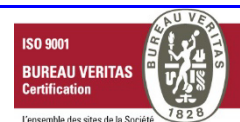
Rolls quantity per container pallet	12
Nominal roll dimension (m)	1x15

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



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Parafor Ponts

Physical and Mechanical Properties

According with EN Standards

Property (as Manufactured)	Test Method	Units	Nominal values	Critical value
Tensile strength at max	EN 12 311-1	N/50mm	950 x 650	820 x 560
Elongation at max	EN 12 311-1	%	40 x 49	35 x 42
Cold temperature flexibility	EN 1109	°C	- 15	-10
Heat flow test	EN 1110	°C	100	95
Dimensional stability	EN 1107-1	%	- 0.5	- 0.5
Static Puncture resistance	EN 12730 A	kg	20	20
Static Puncture resistance	EN 12236	kN	2.30	2.07
Indentation related to Static Puncture	EN 12236	mm	45	43
Impact resistance	EN 12691 B	mm	1500	1500
Adhesion to concrete @ 20°C(1)	NFP 98-282	MPa	0.59	0.4
Adhesion to concrete @ 20°C (2)	NFP 98-282	MPa	0.67	0.4
Lap shear haed lap joints	EN 12317-1	N/50cm	900	900
Lap shear side lap joints	EN 12317-1	N/50cm	600	600
Waterproofing	EN 1928	-	Pass	pass
Water absorption	EN 14223	%	1.1	1.1

- (1) Concrete primed with Siplast Primer
- (2) Concrete primed with Fordeck

According with ASTM standards

Property (as Manufactured)	Test Method	Units	Nominal values	Critical value
Tensile strength at max	ASTM D 5147 section 6	kN/m	18.1 x 12.6	15.7 x 10.9
Elongation at max	ASTM D 5147 section 6	%	54 x 66	47 x 56
Cold temperature flexibility	ASTM D 5147 section 11	°C	-15	-10
Heat flow test	ASTM D 5147 section 15	°C	100	95
Dimensional stability	ASTM D 5147 section 10	%	- 0.5	- 0.5

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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.
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.