

# Parafor ponts

Waterproofing system for road-bridge decks

Fully-bonded elastomeric bitumen single-layer system for direct application of the overlaid wearing course



▶ No overload on the bridge structure: the overall weight of this waterproofing system is 6 kg/m<sup>2</sup> (as opposed to 50kg/m<sup>2</sup> for conventional asphalt course)

▶ Speed of application

▶ Allows light jobsite traffic of vehicles, particularly for the laying of the wearing course

▶ Very good cohesion between the wearing course and the deck (concrete or metal); reduced risk of shear-breaking between the different layers

▶ Over 40 years of successful experience with several millions of m<sup>2</sup> applied on most prestigious bridges

## Main uses

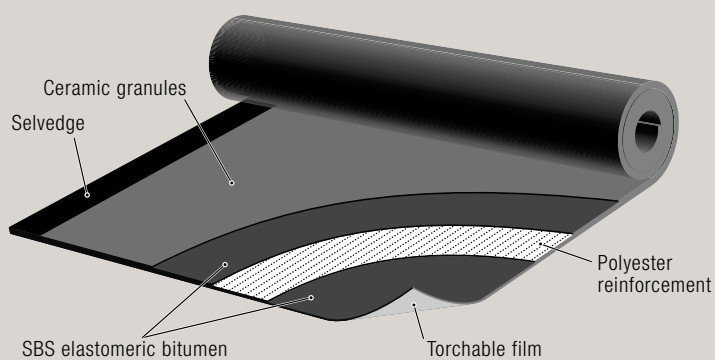
- Waterproofing of road-bridge decks
- Waterproofing of slabs used to cap "cut & cover" trenches
- Waterproofing of concrete decks for car parks

# Parafor ponts

Waterproofing system for road-bridge decks

## Parafor Ponts

Fully-bonded elastomeric bitumen membrane for direct application of the wearing course on top



### Description

Parafor Ponts is a single-layer elastomeric bitumen system to be fully-torched onto the bridge deck including the Siplast Primer and the Parafor Ponts membrane.

The Parafor Ponts membrane is composed of a SBS elastomeric bitumen compound, a high performance non woven polyester reinforcement and surfaced with white ceramic granules.

The Parafor Ponts membrane is fully torched onto concrete deck previously coated with Siplast Primer. The application onto metal deck is possible according specified conditions.

The Siplast Primer is made of SBS elastomeric bitumen and solvents for a quick dry time and a good adhesion of the membrane.

The use of Siplast Primer is essential to reach the performances of the System (see page on right side for description and packaging).

The wearing course (asphalt concrete, macadam) is directly applied onto the Parafor Ponts membrane.

### Packaging

- Roll : 1 m x 8 m - 49kg

Specific longer rolls (1m wide) are possible for automatic application means.

### Complementary information

- Design & Installation Manual
- Technical Assessment (English translation of the "Avis Technique" issued by Setra, the French Technical Authorities)



# Parafor ponts

Waterproofing system for bridge deck

## Ancillary products



### Siplast Primer

Elastomeric bitumen primer



#### Description

Siplast Primer is a cold-applied SBS elastomeric bitumen primer containing Xylene solvent.

#### Benefits

- Drying time : 2h at 12°C.

#### Packaging

- Can of: 2, 10 or 25l

### Fordeck

Sealing coat for concrete deck



#### Description

Sealing coat for concrete deck to apply before torching the Parafor Ponts membrane. Solvent-free, bi-component epoxy coating.

#### Benefits

- Avoid any blistering of the membrane likely to happen under warm climatic conditions.

#### Packaging

Each of 2 components are delivered in separated cans

- Epoxy resin (component A): can of 20kg - 20l
- Hardener (component B) : can of 28kg - 20l

Per pallet: 15 cans of component A + 15 cans of component B

## Some prestigious jobs with Parafor Ponts System

### Belgium

- Zaventem International Airport, Brussels - 22,000m<sup>2</sup>

### Bulgaria

- Varna bridge, Varna - 10,000m<sup>2</sup>

### Croatia

- Maslenica bridge, Zadar area - 9,000m<sup>2</sup>
- Posedarje viaduct - 4000m<sup>2</sup>

### Czech Republic

- Slab on the metro tunnel, Praha - 10,000m<sup>2</sup>

### France & French Overseas Territories

- Millau Viaduct Bridge on the A75 motorway - 70,000m<sup>2</sup>
- Chevire bridge near Nantes, Loire-Atlantique - 40,000m<sup>2</sup>
- Eschau Rhein Bridge, Germany-France border - 20,000m<sup>2</sup>

### Indian Ocean

- Bridges, West coast of La Reunion Island - 4,500m<sup>2</sup>

### Indonesia

- Djakarta International Airport, Djakarta - 30,000m<sup>2</sup>

### Iran

- Urumieh Bridge - 18,000m<sup>2</sup>

### Morocco

- Tahadart Bridge - 10,000m<sup>2</sup>

### Nederland

- Oosterschelde dam bridge, Escaut estuary - 12,000m<sup>2</sup>
- Van Briennordbrug - 12,000m<sup>2</sup>
- Koningspijlijbrug - 18,000m<sup>2</sup>
- Haringulerttbruggen - 23,000m<sup>2</sup>

### Poland

- Bridge over Jywiec Lake, - 9,300m<sup>2</sup>
- Bridge over Vistula river, Grudzjdz - 8,700m<sup>2</sup>

### Qatar

- New International Airport-Doha - 40,000m<sup>2</sup>

### Romania

- Craiova by-pass - 8,000m<sup>2</sup>

### Tunisia

- Rades Bridge - Tunis - 40,000m<sup>2</sup>

### U.A.E.

- Zayed Sports City, Abu Dhabi - 26,000m<sup>2</sup>

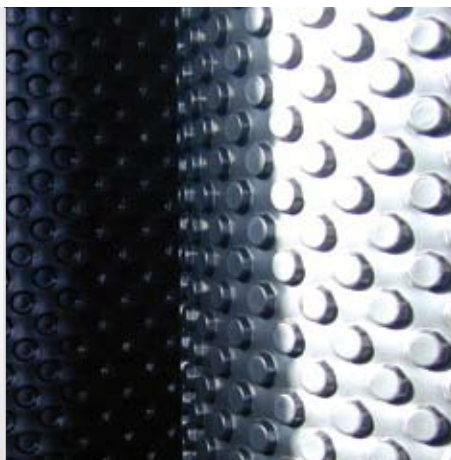
### Vietnam

- Restoration of Eiffel bridge, Ho Chi Minh City - 5,000m<sup>2</sup>
- New concrete bridge, Haiphong area - 4,000m<sup>2</sup>
- New concrete bridge, Phu Long - 18,000 m<sup>2</sup>

# Parafor ponts

Waterproofing system for bridge deck

## Ancillary products



### Fondacoat

Pasty coating for damp-proofing

#### Description

- Modified bitumen polymer, spreading and thickening agents, water
- Colour: black when dry
- Dry extract: 40%
- Solvent-free (product non-flammable)

#### Benefits

- No solvent, safe for use in confined areas, no dangerous vapours (no hydrocarbon solvent)
- Pasty compound to be applied over rough surfaces
- No flowing when used vertically (thixotropic)

#### Packaging

- 5kg can
- 20kg can



### Fonda+/Fonda GTX

Protection and drainage for footings

#### Description

Studded membrane for protection and drainage of below-grade substructures

#### Benefits

- High resistance to compression
- High drainage outflow

#### Packaging

- Fonda+ : rolls in 2m x 20m,
- Fonda GTX : rolls in 2m x 15m



### Percodrain

Drainage system

#### Description

Drainage system for use under the asphalt concrete made of 2 elements combined together:

- a thermo-formed HDPE core;
- a thick polyester filter to maintain;
- a high proportion of voids in the HDPE structure.

#### Benefits

- Quick to fit together each element
- Flat product, easy to apply

#### Packaging

- Rolls of 0,60m x 54m



12, rue de la Renaissance  
92184 Antony Cedex  
Tél. +33 (0)1 40 96 35 00  
Fax. +33 (0)1 40 96 35 07  
www.siplast-international.com