

# RAYSTON SPRAY SYSTEMS

## Impermax Polyurea H Flex

Bridges – Passarelle Debilly, Paris



### BASIC INFORMATION

The Debilly Bridge in Paris is 120m long. It was built in 1899 under the instructions of the architect Jean Résal and was named after the Napoleonic general De Billy. The bridge's basic structure is a metal frame, which lies on masonry piles near the bank of the Seine.



### ABOUT THE JOB

**Substrate :** Concrete  
**Main Coat :** Impermax Polyurea H Flex  
**Application type :** Hot spray application  
**Finish :** Asphalt



### WORK STAGES

#### 1. Support Preparation

Concrete was treated with a diamond grinding machine. Cracks on the surface were repaired and filled up with the single component PU mastic RAYSTON FLEX.

#### 2. Primer

Primer was applied over a well dry, cured, clean (free from dust oils and silicones), smooth and cohesive concrete surface. The objective of the primer is to seal completely the porosity of the surface and to increase the adhesion of the whole system. Rayston Epoxy 100 primer (a solvent free, extender free, very low viscosity epoxy resin) was applied at about 0,45 kg/m<sup>2</sup>. Quartz Sand was broadcasted over the non-cured primer.

#### 3. Creation of the waterproofing membrane

Impermax Polyurea H Flex was sprayed onto the primer at a rate of 2kg/m<sup>2</sup>.



### SHORT DESCRIPTION:

**Place:** Pasarelle Beilly, Paris  
**Surface:** 300m<sup>2</sup>  
**Top coat:** Asphalt

#### 4. Protective top coat

The Impermax Polyurea H Flex seamless waterproofing layer was protected against the hot asphalt (160°C) and mostly against the machines that lay it by a protective final top coat. About 0,25 kg/m<sup>2</sup> of the hard single component PU resin POROSITY SEALER FLEX, afterwards broadcasted with quartz sand until saturated (0,4-0,8 mm.)



### LATEST GENERATION SPRAY SYSTEMS

Impermax Polyurea H Flex by Krypton Chemical has an ETA Certificate for waterproofing of bridges, Certificate n° 16/0149. It's applied exclusively with a special Hot Spray system for two-component products.

