



## The Siplast Parafor Ponts and Fordeck waterproofing system for the Henri Konan Bédié viaduct in Ivory Coast.

**A waterproofing system adapted to an architectural challenge due to complex environmental conditions.**

The Henri Konan Bédié bridge is the third bridge linking the northern and southern parts of the city of Abidjan. This long anticipated bridge was designed to help decongest major thoroughfares by distributing the traffic of frequently clogged areas of the Cocody and Marcory districts. Built by the French construction company Bouygues, the bridge and its interchanges are expected to handle between 65,000 and 75,000 vehicles per day. The 1.5 km long engineering structure is divided into 30 bays of 50 metres each. The structure is elegantly situated on location with a sleek horizontal profile very close to the lagoon's water level, which makes this a contemporary bridge in an urban as well as natural context.

Due to the high volume of clay sediments in the lagoon, the structure's reinforced concrete piers, of which the highest is 80 m into the sediments, are the most important technical features of the structure. The concrete decks were prefabricated on site. Bouygues's choice for a [Siplast](#) waterproofing solution is largely due to the waterproofing manufacturer's quality and reputation, and can also be attributed to its partnership with one of its customers, All Pro United, an African company which has many prestigious engineering structures to its credit.

For waterproofing, a Siplast sealer system with the [Fordeck](#) resin and the [Parafor Ponts](#) membrane, an elastomer bitumen based geomembrane protection fabric developed for waterproofing bridge structures, was used. The Fordeck dual component system was applied in two layers with a scraper then with a roller, followed by the application of graded sand until saturation. The Parafor Ponts was torch-welded over a surface area of 62,000 m<sup>2</sup>.

### Other prestigious references:



Residential complex,  
Zamora - Spain



Casaport railway station,  
Casablanca - Morocco



### Project information

**Project:** Henri Konan Bédié  
Viaduct and Interchange Valéry  
Giscard d'Estaing

**Waterproofing contractor:** All Pro  
United (Cameroun)

**Contractor:** Bouygues

**Consulting Engineers:** Socoprism

**Project management:** BNET

**End of work:** Juillet 2014

**Totale surface:** 62 000 m<sup>2</sup>

### Siplast products:

- [Fordeck](#)
- [Parafor Ponts](#)

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