



# Bridge Deck Waterproofing

## Eliminator® Product in Action

### Bosphorus II Suspension Bridge . Turkey

Client: GENERAL DIRECTORATE OF HIGHWAYS, TURKEY

Main Contractor: BROWN & BEECH ASSOCIATES

Authorised Contractor: IHI, JAPAN



The **Eliminator** Bridge Deck Waterproofing System was chosen to waterproof the elegant steel deck of the then new \$270M Bosphorus II Suspension Bridge in 1988.

The 8-lane structure links Europe and Asia across the narrow straits of the Bosphorus. It is an essential part of Turkey's highway infra-structure linking the West of the country to the East.

#### Composite Action

The bridge's orthotropic deck was first coated with an anti-corrosive methacrylate primer, which helps enhance the adhesion of the subsequent membrane. Pigmented yellow, the **Eliminator** membrane was then applied.

As the steel deck provided a smooth substrate, the membrane was specified and spray applied in one 2mm coat. Finally a high strength hot melt adhesive tack coat was applied.

This melted on contact with the hot mastic surfacing, forming a permanent and tenacious bond to the mastic. As a result the deck, **Eliminator** system and mastic are intimately bonded, aiding composite action.

#### Rapid Application

Despite the dramatic daily fluctuations in climate, varying from sub-zero to sub-tropical temperatures, **Eliminator's** rapid cure, chemical properties and speed of application ensured the project was kept moving. In fact the 34,000m<sup>2</sup> of deck only took 21 days to coat - two and a half weeks ahead of schedule.

Due to the success of the **Eliminator** system on Bosphorus II, Stirling Lloyd was awarded the 27,000m<sup>2</sup> waterproofing contract for the refurbishment of the Bosphorus I bridge in 1991.

Many years after Bosphorus II was completed and Bosphorus I was refurbished, the **Eliminator** system continues to provide 100% effective waterproofing to two of the World's most important structures.



Ref. PIA\_Elim001(4E).pdf  
Available from [stirlinglloyd.com](http://stirlinglloyd.com)



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