



JOB

**High Speed Train
Section of Montcada de Reixac
Stopping liquid water leaks**

SURFACE

6,12 km

PRODUCTS

**AQUAPUR System
Injection resin**

Overview

The construction of a high-speed rail line between Barcelona and the French border, is divided into four sections and passes through the provinces of Barcelona and Girona. The section of Montcada i Reixac-Mollet del Vallès (Barcelona), is 6,12 km long and includes the construction of three viaducts.

The problem

Drilling with a tunnelling machine in areas close to rivers (in this case, the rivers Ripoll and Besòs) causes a huge amount of groundwater, specific treatments must be conducted to the joints between slurry walls to plug the high pressure water leaks.

The solution

Krypton Chemical propose to seal the water leaks with the AQUAPUR system WHICH Is injected (pumped) directly into the water leak through lances fitted with non-return valves.

This new single component polyurethane system reacts with water rapidly forming a high performance foam with exceptional mechanical properties.

The foam results from the reaction with the water. The cured foam is resistant to hydrolysis and acts as a barrier against water ingress.

Conclusion

The Krypton Chemical system can be used for waterways, sewer joints, canals, underground constructions, sealing waterproofing and galleries, the first front of the excavate, cracks in the concrete, sealing of expansion joints in dams, reservoirs.

KRYPTON CHEMICAL, SL

P.I. Les Tapies ■ C/Marti i Franques, 12
43890 L'Hospitalet de L'Infant ■ Tarragona
Tfno. 977 822 245 ■ Fax 977 823 977
E-mail: rayston@kryptonchemical.com
www.raystonpu.com

