

Project Profile - Civil Engineering & Infrastructure



PROJECT

Kingsway Tunnel Invert, Liverpool

SUMMARY

Asbestos encapsulation between precast segments

PRODUCTS

Fastfill
Cemprotec E942

CLIENT

Merseyside Passenger Transport Authority

BACKGROUND ▶

The newest of the two road tunnels running beneath the River Mersey, the 2.2 kilometre long Kingsway dates from the early 1970's.

The tunnel bore is lined by precast concrete segments and the joints were sealed with a caulking material found to contain asbestos. With the passage of time, water ingress and general contamination had conspired to undermine the integrity, causing breakdown within the joint and the release of potentially harmful asbestos fibres into the invert which is the main source of ventilation. A system was needed which would be both effective and safe to use in the working environment.

THE SOLUTION ▶

Working under strict safety conditions, the joints were raked out and reinstated with **Fastfill**. Two coats of **Cemprotec E942**, reinforced with **Cemprotec Scrim** were then applied to seal the joint and lock in any residual fibres. The non-hazardous nature of both products was a crucial factor in the material selection process – **Fastfill** and **Cemprotec E942** are water-based, yet they can be applied to a damp substrate, forming a waterproof seal which is resistant to 10 bar.



FM 41091
EMS 597350
OHS 597351

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