

Lot 1D - TGV Méditerranée



In January 1997, SNCF initiated the construction of a railway bridge near La Garde, Lozère, France. The bridge is part of the extension of the TGV high-speed train network. Formtex® was chosen to meet the client's, the French railway authorities SNCF, demands to concrete durability.

Figure 1. Railway bridge for French TGV high-speed train crossing the RN9.

Process



Figure 2. Bridge parapet cast with Formtex®.

Formtex® was used for the project. The bridge pier formwork elements were lined with Formtex®.

The client requested a durable and resistant concrete to avoid damages from chloride penetration on the bridge piers. For aesthetic reasons, a void-free surface was requested.

Follow-up



Figure 3. Results of Nord France's trials without and with the Formtex®.

Formtex® was glued to the formwork elements (see Application Guide: gluing method) due to the shape of the elements (curves etc.) and as the weather conditions allowed gluing (dry weather). The contractor, Nord France, carried out trials prior to casting the bridge piers to determine the effect of the Formtex® liner.