

Case Study Calatrava's Gare do Oriente, Lisbon

Dow Corning Europe played an important part in the largest urban regeneration project in Europe. The company's construction sealants were used on a number of the key construction projects that are helping to regenerate the Tagus waterfront in the coastal city of Lisbon, Portugal.

The buildings, which were erected for Expo 98, are now fully operational in their long term uses. The specification of Dow Corning sealants for eighty per cent of the glazed facades demonstrates recognition from all the world-class architects involved, of the quality and longevity of Dow Corning products.

The project

The Gare do Oriente is operating as a thriving transport interchange. Spanish architect Santiago Calatrava was tasked with creating the main entrance to the Exposition - a new international station, combining rail, bus and metro links. The result is a magnificently diverse structure, developed by subcontractors Lenametal and Vidronorte (Saint Gobain): steel columns wind upwards like trees over the train tracks, to support a glazed roof.

The Products

Both this and the station's glass walls are sealed with Dow Corning® 797 Weatherseal Silicone Sealant - used because of its exceptional ageing resistance, elasticity (to support the movements of the structure) and adhesion to the painted steel and variety of glass used.

Below the train station, the bus station is formed from a combination of glass and steel awnings. The structure features a variety of Dow Corning sealants - Dow Corning® 993 to bond the glass to the supporting structure; Dow Corning® 794 to maximise the strength and aesthetics of the bolted glazing, and to prevent ageing of the laminated glass; and Dow Corning 797 to protect the whole inner structure from the hot and salty sea air.



Building:	Calatrava's Gare do Oriente
City:	Lisbon
Country:	Portugal
Product:	Dow Corning® 797 Dow Corning® 993 Dow Corning® 794 Dow Corning® 797
Architect:	Santiago Calatrava

The project:

- **The regeneration of the Tagus waterfront is the largest urban regeneration project in Europe. The buildings were erected for Expo 98, and are now fully operational in their long term uses. Dow Corning sealants were specified for eighty per cent of the glazed facades.**
- **The Gare do Oriente is a magnificently diverse structure – it is operating as a thriving transport interchange combining rail, bus and metro links. Steel columns wind upwards like trees over the train tracks, to support a glazed roof.**
- **Both this and the station's glass walls are sealed with Dow Corning 797 Weatherseal Silicone Sealant - used because of its exceptional ageing resistance, elasticity (to support the movements of the structure) and adhesion to the painted steel and variety of glass used.**