



Dow Performance Silicones

Lisbon, Portugal

Case Study: Calatrava's Gare do Oriente

DOWSIL™



City and Country

Lisbon, Portugal

Products*

- DOWSIL™ 797 Weatherproofing Sealant
- DOWSIL™ 993 Structural Glazing Sealant
- DOWSIL™ 794 Silicone Glazing Sealant

Key Participants

- **Architect**
Santiago Calatrava

*Prior to February 2018, products listed were branded as Dow Corning.

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. DOWSIL™ sealants were specified for eighty percent 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 DOWSIL™ 797 Weatherproofing 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.

Dow 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 DOWSIL™ sealants for eighty percent of the glazed facades demonstrates recognition from all the world-class architects involved, of the quality and longevity of DOWSIL™ 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 DOWSIL™ 797 Weatherproofing 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 DOWSIL sealants - DOWSIL™ 993 Structural Glazing Sealant to bond the glass to the supporting structure; DOWSIL™ 794 Silicone Glazing Sealant to maximize the strength and aesthetics of the bolted glazing, and to prevent ageing of the laminated glass; and DOWSIL™ 797 Weatherproofing Sealant to protect the whole inner structure from the hot and salty sea air.

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