



The Shard

London, United Kingdom



Project

Designed by the Italian architect Renzo Piano, The Shard is an 87-storey skyscraper forming part of the London Bridge Quarter development.

Standing approximately 306m (1,004ft) tall, The Shard is currently the tallest building in the European Union (as of 2015).

The structure was inspired by a vision to create a striking vertical city incorporating retail, offices, hotel, apartments, restaurants and a public viewing gallery.

Opened in 2012, a million people visited the Shard's viewing platform in the first year, and up to 6,000 people a day visit the building's restaurants and bars.

Sherwin-Williams was asked to supply both fire protection and anti-corrosion coatings systems for the landmark building.

Substrate: Steel.

Requirements: 20 years external corrosion protection, 90/120 minutes fire protection.

Specification: Blast cleaned to Sa2½ (ISO 8501-1:2007). Macropoxy™ C400V3, Acrolon™ C137V2 (corrosion); FIRETEX® C69, FIRETEX® M95/FX2002/FX4000, Acrolon™ C137V2 (fire protection).

Area coated: 12,500 tons of structural steelwork.

Client: Severfield Reeve (fabricator)/WSP (structural engineer).

Main contractor: Mace.

System

Sherwin-Williams partnered with Severfield Reeve, the fabricator on The Shard, and worked with structural engineer WSP and main contractor Mace to provide a solution for the intumescent fire protection that could be applied at works rather than on-site.

This allowed Mace to reduce the project completion time on-site by eliminating a complete painting step in the critical construction programme whilst also providing a much higher degree of quality control and aesthetic finish to the fire protected steelwork.

Sherwin-Williams offered full specification/technical and practical advice from the early design stages to the completion of the project, with staff providing a complete fire take-off and inspection service.

Coatings used for corrosion protection were Macropoxy™ C400V3 primer and Acrolon™ C137V2 top coat.

Coatings used for fire protection were FIRETEX® C69 fast track blast primer, FIRETEX® M95 epoxy intumescent coating, FIRETEX® FX2002, FIRETEX® FX4000 with Acrolon™ C137V2 as a top coat.



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To learn more, contact us

Europe, Middle East & Africa: +44 (0)1204 521771

North America: +1 800 524 5979

Asia: +8 621 5158 7798

sales.uk@sherwin.com

www.sherwin-williams.com/protectiveEMEA