

Case History:

X-Tite EpoxyGrout 150

Grouting of 30 MW Rolls Royce Generators and Compressors Sharjah Electricity and Water Authority

In order to cope with increased electricity demand during the summer months when temperatures can reach 45°C (113°F) The Government of Sharjah in the United Arab Emirates is investing in dual fired State of the Art high efficiency generators developed by Rolls Royce. They have recently purchased two 30 MW units powered by the same fuel efficient jet engine as fitted the Boeing 777.

These generators are modular and are installed on a 20m x 5m base consisting of multiple steel beams. Correct grouting of these beams are critical as they have to be level to within 0.15mm.

Following the client's concern's with the grout (from a major international supplier) and application method proposed by the civil contractor they decided to pre-qualify and appoint the grouting under a direct contract. While many epoxy grouts were available X-Calibur was the only company to provide the technical and project management expertise to grout the generators following strict procedures specified by Rolls Royce.



Using a state of the art diaphragm pumps and custom designed placement hoppers, grouting was completed in a highly efficient manner with an output of more than 1.5m³ per hour. Grout volumes were 3.3m³ per generator and 2.4m³ per compressor.

X-Tite EpoxyGrout 150 is a high performance epoxy grout that has a long pot life with rapid strength development and excellent flow properties and can be pumped without segregation.