



SIKA AT WORK

QUEENS WEST BUILDING 4, NEW YORK, USA

SIKA WATERTIGHT CONCRETE

BUILDING TRUST



SIKA WATERTIGHT CONCRETE QUEENS WEST BUILDING 4



PROJECT DESCRIPTION

Queens West Building 4, a 38 story residential high rise building, is part of an ambitious new development currently being constructed for the Empire State Development Corporation on a 74 acre site, situated on the East River Waterfront in Queens, New York City. The plan is to renovate a derelict piece of waterfront land into a thriving community incorporating eleven residential apartment buildings, six of which have already been constructed, retail amenities, public parks, two public schools and a public library. Parking garages for residents and visitors will also be provided. On completion, the development will comprise of approximately 4.3 million square feet of residential space, 174,325 square feet of retail space and 140,000 square feet of public facilities. The proposed total area of building program development is approximately 4.6 million square feet.

PROJECT REQUIREMENTS

The exposed concrete façade and garages required a watertight and aesthetic solution. Due to the vicinity of the East river, preventing any water ingress to the interior of the building was essential. A cost effective solution was also required for all other concrete, which had to be capable of being placed throughout the cold weather.

SIKA SOLUTION

Sika Watertight Concrete was utilized in the construction of the exposed concrete walls and concrete garages. The Sika Watertight Concrete System is a high performance, cost effective solution and was selected both for its durability and aesthetic appearance. Concrete supplier delivered 2,500 cubic yards of Sika Watertight Concrete to Sorbara Construction who are responsible for the concrete works on the project. Other Sika admixtures were used in different mix designs to optimize cost and performance. 14,500 cubic yards of concrete were supplied with compressive strengths varying between 9,000 psi at the lower levels to 4,000 psi at the 38th floor. A Sika accelerating admixture was incorporated in cold weather to speed up set times to enable the construction programme to remain on schedule. A 65 year old neon Pepsi Cola sign, which was erected on the demolished Pepsi Cola bottling plant on the site, will be saved and permanently re-sited in front of the building.

PROJECT PARTICIPANTS

Owner : NY Empire State Development Corp. / PA of NY & NJ
Engineer : WSP Seinuk
Contractor : Sorbara Construction

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