

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



CASE HISTORY

BURJ DUBAI TOWER (The World's Tallest Building)



DATE

Construction Start Date: 2/2005

Completion Date: 6/2009

DISTRIBUTOR

United Corrosion Technologies

LOCATION

Dubai, UAE

DEVELOPER

EMAAR Properties

CONSTRUCTION MANAGER

Turner

PRODUCTS

MCI® 2005

CONTRACTOR

Samsung Corporation

CONCRETE CONTRACTOR

Unimix (Universal Concrete Products LLC)

ARCHITECT

Skidmore, Owens and Merrill

APPLICATION

Cortec's MCI® 2005 was incorporated in the concrete mix design for the podium structure. The building sits on a concrete and steel podium with 192 piles descending to a depth of more than 50 meters (164 feet). A total of 45,000 m³ of concrete was used in the foundations with a weight in excess of 110,000 tonnes (121,254.2 US tons).


CONCLUSION

The centerpiece of a huge mixed-use development, the Burj Dubai Tower is expected to rise to more than 700 meters (2,296.59 feet), which is 200 meters (656.16 feet) higher than the current tallest building in Taipei. Accordingly, special attention was paid to the quality of the foundations. The developers, Emaar Properties, engaged GHD to review the proposed design and assess the durability of the materials required to provide the 100-year design life in the demanding Gulf environment.

After a thorough review of multiple technologies, Cortec® MCI® 2005 was selected for providing the best performance.

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