



DATE

September 2008 - July 2010

CUSTOMER

Barwa Real Estate Company

DISTRIBUTOR

United Corrosion Technologies

CONCRETE SUPPLIERS

Arabian Readymix
Khaled Cement

CONTRACTOR

Hochtief

CONSULTANT

AECOM Middle East

LOCATION

Doha, Qatar

CASE HISTORY

Doha Development Preservation

PRODUCTS

MCI® 2005

PROBLEM

Barwa Commercial Avenue is an 8 km (4.97 miles) commercial and residential development that houses ultra-modern homes, commercial complexes, restaurants, showrooms, and offices. It was constructed over an area of 894,000 m² (1,069,200 yd²) with a built-up area of 462,000 m² (552,550 yd²). In the design of this landmark project in Doha, attention was given to providing durable concrete structures that would provide the desired service-life and maximize investor value.

APPLICATION

The main threat to the structural integrity of buildings in this region lies in the highly saline soil and shallow groundwater. The prevalence of Sabkha in the Gulf region introduces highly corrosive mineral deposits in the soil with salinity levels exceeding three times that in seawater. To mitigate this threat, a high performance concrete mix was used incorporating Cortec's MCI® 2005 corrosion inhibitor.

CONCLUSION

Cortec's patented MCI® technology protects reinforcing metal in concrete from corrosion, therefore extending its service life. Being bio-based, it's environmentally friendly and safe. MCI® 2005 is NSF Standard 61 certified for use with potable water.



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