



MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



# CASE HISTORY

## Extending Service Life: Abraj Quartier Residential Towers



### DISTRIBUTOR

Grey Matters Construction

### CONTRACTOR

Shapoorji Pallonji

### PRODUCT

MCI®-2005

### PROBLEM

The project calls for the construction of four residential towers (AQ03, AQ04, AQ05, and AQ06) at the Abraj Quartier District in Pearl, Qatar. Each building consists of a basement, ground level, and 40 floors. Due to the high presence of chlorides in the soil, there is a high risk of steel reinforcement corrosion.

### APPLICATION

MCI®-2005 was specified to achieve the required structural service life and enhance durability. It was added to more than 30,000 cubic meters (39,239 yd<sup>3</sup>) of concrete used in substructure elements such as the buildings' rafts, retaining walls, and water tanks.

### CONCLUSION

MCI®-2005 provided a sustainable way to inhibit corrosion and extend the design life of the four new towers. Made from renewable resources, MCI®-2005 contains 67% USDA certified biobased content. It is also certified to meet ANSI/NSF Standard 61 approval for use in potable water structures, minimizing concerns that might arise because of the structures' proximity to the sea.

### DATE

October 2015

### CUSTOMER

United Readymix

### LOCATION

Pearl Qatar, Abraj Quartier District

### PRESENTED BY:



Environmentally Safe VpCl®/MCI® Technologies

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ch582 2/2018 Page 1 of 1

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