

NEWS ALERT



Cortec's MCI®-2005 In Al Jalila Hospital Featured At Zawya!

Structures in Dubai and in the Gulf region in general are exposed to a shallow water table with high levels of salinity; coupled with high temperatures and humidity levels the embedded steel reinforcement of concrete is threatened with corrosion. In this region's harsh environment, steel reinforcement can corrode rapidly, threatening structural strength and necessitating costly repair. To counter this risk, durability-enhancing measures need to be used to ensure the desired lifespan of buildings. The designer for the Al Jalila Hospital project, a development of the Dubai Health Authority, had special requirements for the durability of the concrete and the overall service life of this structure. A good engineering practice of "designing for durability" goes a long way in preservation and saving operating costs. For this construction they chose Cortec's MCI®-2005 to incorporate into the mix to enhance the durability of the concrete.

MCI®-2005 is a water-based, organic, corrosion inhibiting admixture that protects metallic reinforcement in concrete structures from corrosion induced by carbonation, chloride, and atmospheric attack. Cortec's Patented MCI® technology utilizing bio-based renewable resources, is environmentally friendly, safe, and certified to meet NSF/ANSI Standard 61 for use in potable water structures/components. MCI®-2005 protects with a time-proven migratory corrosion inhibitor function. It contains a contact inhibitor that seeks out and forms a corrosion inhibiting protective layer on metals.

This hospital was also designed to adhere to the highest international standards of quality and safety. Several innovative concepts were used in the design and construction aspects including the materials being used and sustainability initiatives. The eco-friendly design and development model of the hospital has already won international honors, including the Future Projects - Health Award at the World Architecture Festival in Barcelona, 2009; and Hospital Build Award 2011 for Best Sustainable Hospital Project.

The Al Jalila Hospital is the first hospital in the region to provide super-specialty and multi-spectrum pediatric care, catering to children from newborn up to 16 years of age. It will have 200 beds and will also include a pediatric trauma center, heart center, transplant unit, surgical departments, outpatient clinics, dialysis unit, and oncology care. The project is the initiative of His Highness Sheikh Mohammed Bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE, and Ruler of Dubai, as a gift to the children of the UAE and the region.

Cortec's MCI®-2005, used in this project is certified by Underwriters Laboratories for NSF Standard 61 approval for use in potable water tanks, is USDA Certified Biobased (67%) by BioPreferredSM - which earns LEED credits to users, and meets requirements for ASTM C1582.

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