

CORTEC® NEWS

February 19, 2010

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Wed, Feb 17, 2010, 09:34 GMT

Protecting a National Asset: Burj Khalifa Towers with a 100 Year Design Life

Dubai - February 16th 2010. Standing 828 meters (2,717 feet) tall and housing more than 160 stories, Burj Khalifa is the world's tallest structure, a single tower that will eventually house 12,000 people.

The significance of designing and building the tallest building on Earth, coating over AED\$ 5 billion (US\$ 1.5 billion), has become a matter of national pride making the protection of this national asset a priority to the government of the UAE, investors, and the tourism industry.

"The construction of a 100-year design life and the aggressive exposure conditions of Dubai's environment were the reasons the designer had to carefully consider the durability of the tower's sub-structure," said Dr. James Abell, a CHC Consulting Engineer, Manager of the Independent Verification and Testing Agency (IVTAs) for the Burj Khalifa project. Substructures in Dubai, and in the Gulf region in general, are exposed to a chloride water table with high levels of salinity, which threatens the embedded steel reinforcement with corrosion.

To counter this risk, a high quality ternary blend concrete was used in the substructure of the tower, along with other durability enhancing measures to enable and ensure the desired lifespan.

Among these measures, a migrating corrosion inhibitor (MCI) supplied by United Corrosion Technologies was added into the concrete mix. MCI is developed and manufactured by the US-based Cortec Corporation, and utilizes bio-based renewable resources to provide corrosion protection to steel reinforcement.

"In our region's harsh environment, steel reinforcement can corrode rapidly, threatening structural strength and necessitating costly repair. Good engineering practice in designing for durability goes a long way in preserving structure and saving operating costs," said Claire Jarrat, managing director of United Corrosion Technologies.

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About CHC Consulting Engineers:
CHC is an international network of professional and technical consultants. Established in 1928, CHC employs more than 6000 people across five continents and serves clients in the global markets of water, energy and resources, environment, property and buildings, and transportation. Initially owned by its staff, CHC is focused exclusively on client success. Our network of forward-thinking engineers, architects, planners, scientists, project managers and economic collaborators to solve client and community challenges. They embrace the core values of Fairness, Respect and Integrity to create enduring relationships that deliver exceptional results.

With a history of adapting to the ever-changing needs of its clients, CHC is recognized for its commitment to innovation, safety and sustainable development. We care for the wellbeing of our people, communities and the environments in which we operate.

Today, CHC is ranked as one of the world's leading engineering, architecture and consultancy firms. A member of the World Business Council for Sustainable Development, CHC operates under a Practice Quality Management System that is certified by Lloyd's Register Quality Assurance to international standard ISO 9001:2008 and our Environmental Management System is certified to international standard ISO 14001:2004 by Lloyd's Register Quality Assurance (LRQA).

About United Corrosion Technologies (UCT)
United Corrosion Technologies (UCT) provides corrosion solutions that maximize the value of structures and equipment. In the pursuit of delivering its promise to maximize value, UCT relies heavily on its team of highly qualified and experienced engineers that are capable of assessing corrosion risks and executing the most effective protection strategies.

UCT's team relies upon a wide portfolio of technologies that includes Chemicals and Corrosion Inhibitors, Protective Coatings and Linings, Cathodic Protection Systems, and Non-Metallic Composites. UCT also offers several corrosion-engineering services such as Value Engineering, Protective Systems, Corrosion Audits, and Failure Analysis.

For more information, please visit www.unitedcorrosion.com

For media requests, please contact:

PRODUCT SPOTLIGHT:

Cortec's Cor-Pak® VpCI® Masking Film: The Ultimate Protection Film.

Cortec's Cor-Pak® VpCI® Masking Film provides scratch and mar resistance in combination with Cortec's high tech corrosion inhibition. It is constructed from a high quality PET (Polyethylene Terephthalate) film with silicone release properties providing...



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CASE HISTORY:

Cortec's MCI®-2061: An Environmentally Friendly Solution to Removing Stains and Improving the Appearance of Concrete.



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UPCOMING EVENTS:

Cortec® is Pleased to Announce Sales & Product Training March 29th & 30th.



CORTEC WORLD
HEADQUARTERS
IS PLEASED
TO ANNOUNCE...

SALES & PRODUCT TRAINING

Join us at Cortec for two full days of learning and discovery! Whether you are looking to get to know Cortec a little better or are just now being introduced, our Sales and Product Training at corporate headquarters in Saint Paul, Minnesota familiarizes Cortec Representatives and Distributors with our company and products. Come and meet the sales managers, laboratory personnel, customer service, and the marketing team! Ask us questions and tour our facilities! And, most importantly, walk away knowing more about Cortec than ever before!

Training will begin on **Monday March 29, 2010** and will end on the afternoon of **Tuesday March 30, 2010**. Attached is a registration agenda complete with descriptions for each session. Please note the options for sessions on Monday and Tuesday afternoon and the discussion over dinner on Monday evening. To register, please **Fax** or **e-mail** the completed form to:

Kathy Selbitschka or Karen Braslie
Fax: 651 429 1122
e-mail: kathy@cortecvci.com or kbraslie@cortecvci.com

The deadline for registration is **March 19, 2010**. For any questions, please contact Kathy or Karen at the above e-mail addresses or by phone at Kathy at 651-429-1100 x 131, Karen at 651-429-1100 ext 152. We look forward to seeing you!

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CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies