An Innovative and Proven Solution for Repelling Water Ingress into Concrete Structure

Co-organizer:  
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Presenter:   
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Date:   
28 May 2010, Friday

Time:   
6:00pm to 7:30pm

Venue:  
Room Y306, The Hong Kong Polytechnic University

Details:

Water ingress into subsurface concrete structures takes place by capillary action and in some cases also through cracks. Ingress through large cracks can usually be solved by crack injection; however ingress by capillary action is difficult to treat successfully in many cases. Traditional passive approach waterproofing techniques produce variable results and continuous long-term water ingress will occur if membranes are compromised. Performance degrades over time and they generally cannot comply with the Design Life specified by the client.

An innovative and proven solution has been developed to counter such capillary action by means of the Multi-Pulse Sequencing (MPS) system using electro-osmosis. Using a very small current measured in milliamps, the system expels groundwater and can counter up to 60 bar pressure or 600m high equivalent water pressure.

A recent application in a London underground station has overcome severe water ingress problems that could not be successfully treated by traditional methods and has achieved LUL’s relative humidity standards. MPS has also been certified to be compliant with railway EMC standards.
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Outline of the Presentation:

1) What is MPS System?
2) Fundamentals behind MPS Technology
3) MPS System in action
4) History of the MPS Technology
5) Failures of Resin Injection
6) How does the MPS System work?
7) MPS Intelligent System
8) Examples of asset degradation
9) MPS installation process
10) Project references in Hong Kong, China & Overseas
11) Key features of MPS System
12) What is the design life of a membrane?
13) Testimonials from satisfied clients
14) Conclusion
15) Q&A