KISHI LAB.  

[Property of material concrete and durability of concrete structure]

Institute of Industrial Science  
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http://wdnsword.iis.u-tokyo.ac.jp/index_e.shtml

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Property and durability of concrete

Kishi laboratory undertake research on (1) cement-based material resolving its physical property, performance assessment, development and practical application of new material and (2) quality inspection / maintenance of concrete structure.

◆ A study on new evaluation method of salt penetration that can be considered stagnation and continuation of advection and diffusion
◆ A study on new durability design frame that is based on evaluation of liquid water penetration as alternative to neutralization
◆ Study on Regularity of flow and flow curve based on velocity profiles in coaxial cylinders
◆ A study on mechanism of water flow reduction due to air bubble generation in crack
◆ Development of simplified evaluation method of concrete surface quality
◆ Development of self-healing technology of concrete crack

Application of self-healing concrete for water leakage of underground infrastructures as tunnels

Self-healing process of self-healing concrete

Water flow reduction due to generation of air bubble

Evaluation of concrete surface quality

Contradiction of the assumptions in the rheological measurements
Study on flow curve and regularity of flow

Change of flow regularity

Water pass test

Mechanism of water flow reduction