



KISHI LAB.

[Property of material concrete and durability of concrete structure]

Department of Human & Social Systems

http://wdnsword.iis.u-tokyo.ac.jp/index_e.shtml

Concrete & Recycling Engineering

Dept. of Civil Eng.

Property and durability of concrete

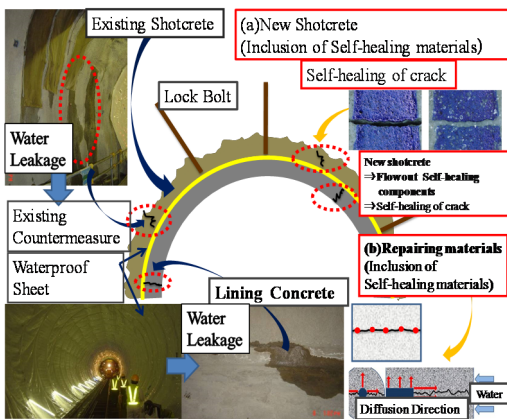
Kishi laboratory undertake research on (1) cement-based material resolving its physical property, performance assessment, development and practical application of new material and (2) quality inspection / maintenance of concrete structure.

Investigation of durability and quality assessment on the surface concrete

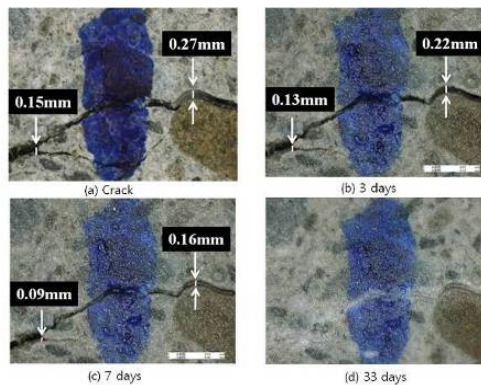
Application of self-healing technology to various civil infrastructures

A study on the relationship between micro pore structure and mass transfer in cementitious material using micro/ nano technology

Thermal stress relaxation by hybrid use between expansive additive and light weight aggregate (using Thermal Stress Testing Machine)



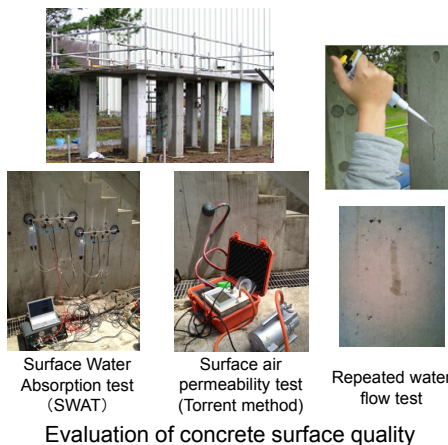
Application of self-healing concrete for water leakage of underground infrastructures as tunnels



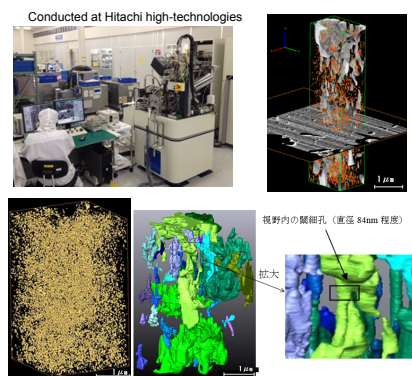
Self-healing process of self-healing concrete



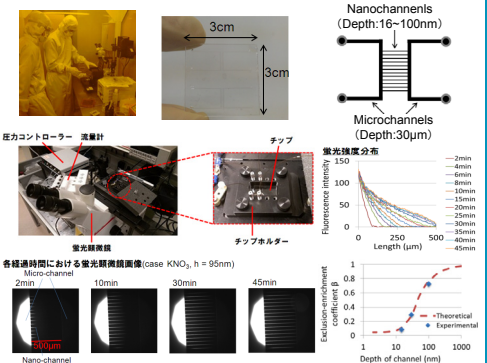
Concrete canoe competition (Made of self-healing concrete)



Surface Water Absorption test (SWAT)
Surface air permeability test (Torrent method)
Repeated water flow test
Evaluation of concrete surface quality



Observation of pore network in concrete with FIB-SEM and extraction of threshold pore diameter which governs mass transport



Mass transport in micro/nano channel

Under the guidance of Hibara lab. In 4th division (now in Tokyo Institute of Technology) and Prof. Eijkel in Twehte university