KISHI LABORATORY



KISHI LAB.

[Crack Self-healing Concrete & Quality Assessment **Technology on the Surface Concrete**]

Department of Human & Social Systems

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

Concrete & Recycling Engineering

Dept. of Civil Eng.

What is the Crack Self-healing Concrete?

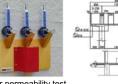
This concept is one of the maintenance-free methods which, apart from saving direct costs for maintenance and repair, reduces the indirect costs - a saving generally welcomed by contractors.

- Application of self-healing technology to various civil infrastructures
- Investigation of durability and quality assessment on the surface concrete
- 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)
- A study on mechanisms of unique behaviors of expansive concrete



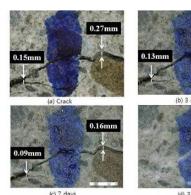
Application of self-healing concrete for water leakage of underground infrastructures as tunnels





Water permeability test

Quality Assessment of Surface Concrete



(b) 3 days





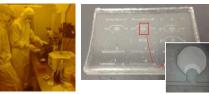
(Made of self-healing concrete)

Self-healing process of self-healing concrete



TSTM(Thermal Stress Testing Machine)

Institute of Industrial Science





Study on mass transfer in micro space using micro/ nano devices