

**Water Penetrability in the Surface Concrete and at the Interface between the Concrete  
and the Repair Materials**

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As water is related to many kinds of deterioration mechanisms of the concrete structures, knowledge on the water movement behavior in the concrete is very useful in order to perform appropriate maintenance of the concrete structures. In this study through many experiences with us of monitoring sensors embedded in concrete samples, it was clarified that water penetration properties in the surface concrete are different depending on concrete varieties such as using materials, mix proportions and curing methods. It was also made clear that water penetration behavior at the interface between the concrete and the cross section repair materials depends on the pretreatment methods applied before setting restoration materials.