

Fundamental Study on maintenance program for concrete structures

Deterioration rate of concrete structures is dependent on their causes and mechanisms. For the cost effective planning of rehabilitation on existing concrete structures, it is essential to take into account for the rate of the progress of deterioration.

From the inspection results of repaired concrete structures deteriorated by chloride induced corrosion, the following conclusion was obtained. In case of chloride induced corrosion, the decision of window of an opportunity for the operation of repair work has serious impact on the performance of the structures in long term.

Keyword: Concrete structures, Chloride induced corrosion, Durability, Leaching, Pozzolan