

Évaluation du coefficient de diffusion des chlorures dans le béton armé sous chargement mécanique

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In service conditions, reinforced concrete structures are cracked, which enable the chloride ingress and diffusion and could initiate steel reinforcement corrosion. This project aims to measure the impact of both micro- and macro- cracks, obtained under tensile load, on chloride diffusion coefficient. Steadystate migration tests carried out under electrical field are conducted on a reinforced concrete tie specimen, whose thickness is representative of reinforcement cover in structures. Results given in this paper come from the preliminary experimental program, consisting in the verification of changes in the procedure regarding to the current norm. The impact of the reinforcing bar and the specimen thickness are studied.