

# Corrosion of reinforcing steel and reinforced concrete - 215 references from the COR database

## Materials Information - Probabilistic model for steel corrosion in reinforced concrete structures of large dimensions considering crack effects



Description: -

-Corrosion of reinforcing steel and reinforced concrete - 215 references from the COR database

- Search-in-Print ReportCorrosion of reinforcing steel and reinforced concrete - 215 references from the COR database

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### Fatigue Flexural Behavior of Corroded Reinforced Concrete Beams Repaired with CFRP Sheets

Practical experience has shown that an electrode potential survey alone cannot be used to judge the condition. Thus, determinations of the  $R_p$ , while they do not necessarily yield accurate values for the rates of corrosion do yield comparative rates when the conditions of measurement are standardised. The vertical cracks occurred in the region between the CFRP U-wraps.

### Enhancing the corrosion resistance of reinforcing steel under aggressive operational conditions using behentrimonium chloride

These systems have worked well, but for application to beams or the underside of bridge decks where the additional weight that would be added by such a system might be undesirable, other anode systems have been developed which can be applied over the whole surface to be protected. Fibre-reinforced concrete is also considered. Courtesy of Pourbaix in Ailor, 1971, p.

### Enhancing the corrosion resistance of reinforcing steel under aggressive operational conditions using behentrimonium chloride

It is clear that in case of the absence of the corrosion inhibitor, deep pits were formed and their number is suppressed as the pH of the medium increases. Steel-reinforced concrete characteristics 15 Table 1. Impressed current systems are commonly employed and the difference between the various systems is primarily concerned with the nature of the anode.

### A novel approach to systematically collect critical chloride contents in concrete in an open access data base

The principles of anti-carbonation coatings are that they are porous enough to let water vapour move in and out of the concrete, but the pores are too small for the large carbon dioxide molecule to pass through Broomfield, 2007. In seawater, aluminium, and zinc anodes are used. Cracking, time to concrete spalling, etc as corrosion damage criterion and SLS would therefore be inapplicable in such circumstances.

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