Corrosion of Reinforcing Steel in Reinforced Concrete

Message from the Guest Editor

The long-established challenges to reinforced concrete have been exposure to aggressive chloride ions from the sea, ground, admixtures or de-icing salts, and the neutralisation of the protective alkalinity by reaction with atmospheric carbon dioxide. The repair of reinforced concrete as a result of reinforcement corrosion is a major industry and, in addition to conventional breakout and repair, employs a wide range of specialist methods and materials such as cathodic protection and corrosion inhibitors.

This Special Issue of Materials provides a forum for original research and critical reviews on advances in characterising and controlling the corrosion of steel reinforcement—whether conventional, pre-stressed or fibre—in reinforced concrete structural applications. Areas of interest include critical chloride levels, the monitoring and measurement of reinforcement corrosion in the laboratory and on site, and the control of corrosion by chemical and electrochemical means.
Editor-in-Chief

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Message from the Editor-in-Chief

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