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Corrosion in Concrete: Inhibitors and Coatings

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Message from the Guest Editor

Corrosion inhibitors and coatings could represent a suitable solution to face corrosion and deterioration even in severe aggressive environments or in the presence of cracks. Corrosion inhibitors, applied on the surface of the reinforced concrete and/or added as concrete ingredients, represent a valid technique to mitigate corrosion risk in both new and existing structures. Similarly, coatings can be employed to prolong the service life of reinforced concrete structures exposed to air, seawater or deicing salts, as well as concrete structures subjected to an acid attack.

This Special Issue aims to add evidence to the scientific progress achieved in the research and development of corrosion inhibitors and coatings for concrete. Topics of interest include the following:

- Corrosion inhibitors as cementitious mixture ingredients for reinforced concretes;
- Migranting corrosion inhibitors;
- Coatings to prevent CO₂-induced corrosion of steel bars;
- Coatings to enhance durability of structures exposed to chloride-induced corrosion;
- Coatings for concrete elements subjected to acid attack;
- Case history and applications.









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Message from the Editor-in-Chief

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