



Self-Healing and Smart Cementitious Construction Materials

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Deadline for manuscript
submissions:

closed (30 April 2020)

Message from the Guest Editors

Dear Colleagues,

In this Special Issue, the recent advances in the development of these smart admixtures are discussed. The compatibility of the smart admixtures with other concrete components and the effects on fresh and hardened concrete properties are considered. Modelling of the hydration reactions and microstructure formation in the novel durable concrete, of the activation of smart properties, of the service life in specific environments, and of environmental impacts, is of importance as well. Evaluation of the resistance to extreme conditions is also included, with consideration of extreme thermal gradients, ice impact and abrasion, corrosion, freeze–thaw actions, deep-sea conditions, mechanical fatigue, and acid attack.

All these topics are considered in the “Conference on Durable Concrete for Infrastructure under Severe Conditions—Smart Admixtures, Self-Responsiveness and Nano-Additions”, organized in Ghent, 10–11 September 2019, by the partners of the European H2020 project Lorcenis.





an Open Access Journal by MDPI

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Message from the Editor-in-Chief

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