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Polymer in/on Concrete

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Message from the Guest Editor

Cement-based materials have become predominant construction materials worldwide. Compared to other construction materials, the relative share of polymers is significantly lower. However, the available data indicate a steady increase in the use of various types of polymers and polymer–concrete composites, especially for the repair and protection of concrete structures. Recently, the scope of application of polymers in concrete and on concrete is enlarged significantly from the modification of the composition of the concrete using modern admixtures and additives, through alternative binders, polymer composites for the reinforcement of concrete, improvement of the properties of the concrete surface to special properties like self-healing, self-cleaning. Merging the cement concrete and polymers also opens the possibility of synergetic effects that support sustainable material development in construction. The progress of methods of material microstructure characterization, a computational science approach, including compatibility issues as well as non-destructive methods are useful for modeling the performance properties of concrete modified with polymers.

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Message from the Editor-in-Chief

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