

Effect of the Time of Application of Curing Membranes on Mortar Properties

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Abstract:

Curing of the mortar, specially in a hot climate, has a strong influence on the properties of fresh and hardened mortar. The process of curing is designed to maintain the mortar in its most favorable condition until adequate hydration of cement has occurred.

The aim of this paper was to investigate the effect of the time of application of a solvent-based and water-based curing membrane on the compressive strength, permeability and porosity of sand-cement mortar.

For durable mortar it was found that the solvent-based membrane should be applied to the mortar surface while some surface water remains. The water-based membrane should be applied to the mortar surface after the bleed water has disappeared.

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