

## **Evolution of the Degree of Hydration of Portland Cement Pastes**

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In general, in the mixtures of the hydraulic materials the binder constitutes the only active phase. The hydraulic material behavior, during hardening is closely linked to binder one.

One of the factors through which the behavior of the binder, during hardening, can be analyzed is its degree of hydration which characterizes well the state of evolution of the hydration reaction.

This study is concerned with the modeling of the evolution of the water content combined in Portland cement paste during hardening and also, the prediction of the physic-chemical performances linked to the degree of hydration of the binder.

Various factors, known to be very influenced on the hydration, have been considered.