

Concrete Curing Time



Structural Guide

What is Curing of Concrete

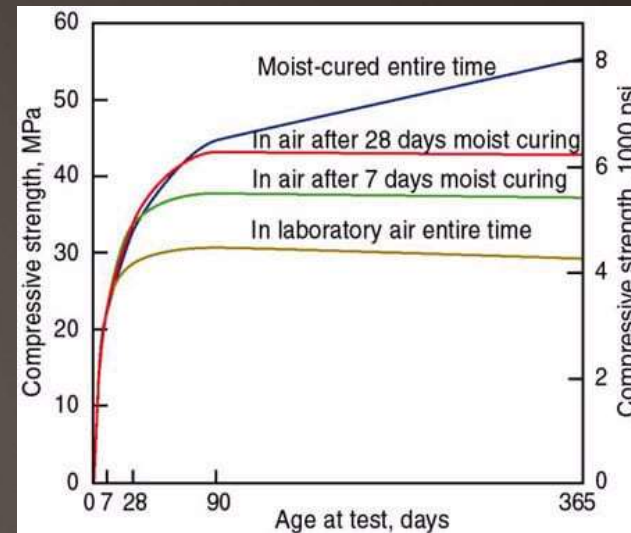
Curing of concrete is done for the following reasons

- ▶ Maintain surface moisture
- ▶ Reduce the concrete temperature
- ▶ Maintain Temperature gradient
- ▶ Maintain temperature difference
- ▶ Increase the concrete temperature



How Long Concrete Need to Cure

- ▶ If we do the curing, the strength of the concrete does not increase after a certain level.
- ▶ There is a considerable difference between 7 days curing and 28 days curing.
- ▶ However, the difference is constant and it is not significant. Carrying out curing for a year, there is a very high increase in strength.



In general, concrete gains most of the strength, 70-80% of characteristic strength, within 7 days of concreting. In this background, usually, curing is done for 7 days.

Larger concrete-like very high volume concretes, the curing period shall be determined based on the data obtained from a mockup test.

Thank you



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