
Discussion Forum

Effect of improper casting sequence on compressive strength

Dear Sir,

Please refer to the paper titled 'Effect of improper casting sequence on compressive strength' published in The Indian Concrete Journal, January 2012, Vol. 86, No. 1, pp. 30-41. I wish to congratulate the authors for choosing this topic. I find that the cube test results are exceeding the 28 days compressive strengths, prescribed in the IS 456:2000. I used to be very strict for not having any cold joints in the case of vertical cement mill bed concrete. This was many years ago. Now, after reading this paper, I am more reassured about the idea of cold joints.

Under Table 1, in Sr. No. 6, the authors have given the 'fineness of cement' as 4%. But as per BIS specification IS 12269:1987, the fineness of cement should be not less than 225 m²/kg. I request you to get the correct information from the authors. I also request you to get the information of the weight of the cement used per cubic meter of concrete for the various concrete mixes used in the experiment.

Thanking you,

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The author replies

Dear Sir,

I would like to clarify that the cement fineness test was the sieve analysis fineness, conducted using a 90 microns sieve. According to IS 122269:2007, the fineness should not exceed 10% by weight. The Blaine's Air permeability test that gives fineness in m²/kg was not carried out by us.

For other queries I would like to have the reader's direct contact details.

with best regards,

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