Discussion

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Relation between the change of water content and the consistence of fresh concrete*

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Dr Popovics may be interested in the following three Figures illustrating relations between water/cement ratio and workability as measured by a Vebe consistometer.

Reply by the author

I am pleased that the "assumption of independence" is also applicable when the Vebe method is used to measure the consistence and even when additives are employed.

Figure 1: Relations between workability and water/cement ratio for two concrete mixes with various additives in the proportions recommended by the makers. Results obtained at the British Transport Commission's Research Laboratories, Muswell Hill, with a Vebe consistometer.

Figure II: Relation between workability and water/cement ratio for the same concrete mixes as in Figure I but with $1\frac{1}{2}$ times the recommended quantities of the additives. Results obtained as in Figure I.

Figure III: Relation between workability and water/cement ratio for a concrete mix with the same additives as in Figure I in the proportions recommended by the makers. Results obtained at the Chief Civil Engineer's Concrete Depot, London Midland Region, British Railways, with a different Vebe consistometer.

CORRIGENDUM

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The example quoted four lines below equation 26 on page 83 should read : When $\mu = 16$ and $\lambda = \frac{1}{4}$, . . .