

AN EXPERIMENTAL INVESTIGATION OF
CONCRETE WITH VERY HIGH WORKABILITIES

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Project Report

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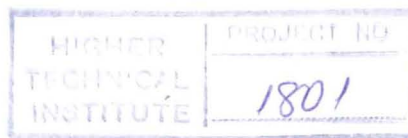
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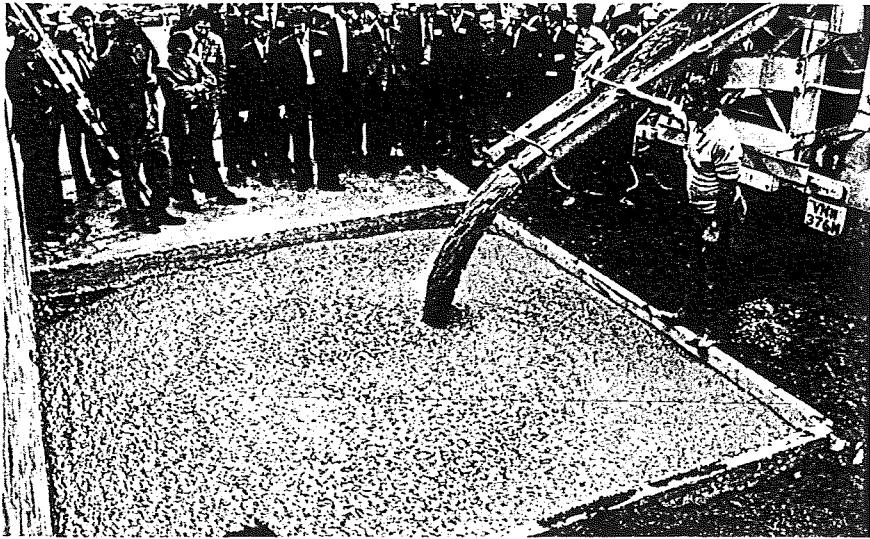
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SUMMARY

An experimental investigation of concrete with very high workabilities

This book aims in presenting the significance of concrete with very high workabilities and in investigating the ways of producing such a concrete, bearing in mind the different circumstances under which a concrete may be produced and trying to produce concrete that meets all requirements and the mix design to be as economical as possible.

Concrete must be satisfactory both in its fresh and hardened state. But the requirements of the first state come often in contrast to the requirements of the second one. [Here comes the problem of making a concrete that is readily workable and satisfies all the site demands of a particular situation but as well meets all requirements of concrete in its hardened state.]

The solution to the problem is presented mainly through experiments done from technologists. Basically the use of admixtures is investigated and their impact on all properties of concrete is experimentally proved. Data is mainly given in graphical presentation. [The use of admixtures is proved to be necessary in almost all cases where concrete with very high workabilities is required and it is emphasized that admixtures shall be used in accordance to manufacturers specifications and local considerations.]

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