



Self-Consolidating Concrete: Applying what we know

By Joseph A. Daczko



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"A very interesting and useful book for all the different practitioners in the concrete industry. Each necessary step is thoroughly dealt with and explained in a nice and pedagogic way."

?Peter Billberg, Swedish Cement and Concrete Research Institute (CBI)

"Quite comprehensive and with a narrative style at the practitioner level."

?Lloyd Keller, Director of R&D and Quality Assurance, EllisDon, Canada

Self-consolidating concrete (SCC) is an innovative material used successfully throughout the world. It is a highly flowable, non-segregating concrete that can spread into place, fill the formwork, and encapsulate the reinforcement without any mechanical consolidation, improving the overall efficiency of a concrete construction project. SCC mixtures are highly fluid, yet their flowing properties can be adapted for a range of applications and allow practitioners to select and determine levels of filling ability, passing ability, and stability.

Self-Consolidating Concrete: Applying What We Know discusses all aspects of SCC, including:

- Benefits and limitations
- Raw material components
- Mixture proportions
- Production and quality control
- Placement and curing

Presenting a basis for consistently producing and applying SCC in a regular production environment, this book is written from the perspective of the concrete practitioner. It uses descriptions and case studies throughout, as examples of specific types of applications, to identify where the practitioner needs to focus attention.

This book bridges the gap between research and practice. It links science with practical application, describing a number of projects and types of applications where SCC has been used successfully. It will be useful for new practitioners as

well as for those already using SCC.

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Editorial Review

Review

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About the Author

Joseph A. Daczko is a concrete technologist with the admixture systems business of BASF. He was the first chairman of the American Concrete Institute's committee on Self-Consolidating Concrete and was presented with ACI's Delmar Bloem Award for leadership of this committee.

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