

Concrete Technology in Focus

Unique SCC Mixture Optimization

Innovative Computer Software

Introduction

A leader and pioneer in Self-Consolidating Concrete (SCC) technology, BASF is committed to bringing solutions to the concrete industry. SCC is revolutionizing concrete production, and now BASF is revolutionizing the production of SCC.



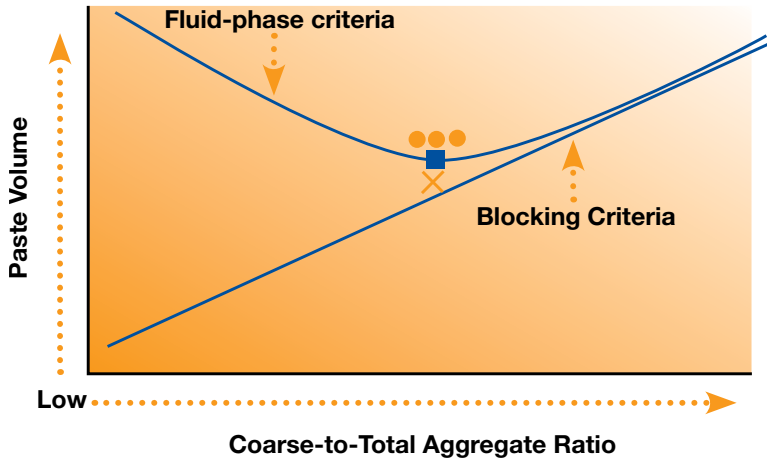
The Admixture Systems business of BASF Construction Chemicals has introduced a unique SCC Mixture Optimization Tool to help producers identify the best performing material and admixture combinations for specific applications. This powerful computer modeling software captures relevant data to develop a cost effective, high performance SCC mixture with excellent surface finish, eliminating the time and expense of multiple “trial and error” methods.

The tool was developed based on research and extensive studies in concrete and SCC technology. This mixture optimization tool has been successfully used to improve the performance and cost efficiency of SCC used on multiple projects in Australia, Thailand, Sweden, New Zealand and the United States.

Based on Sound Scientific Concept

This unique SCC Mixture Optimization Tool uses proven models and aggregate gradation information to optimize paste volume with respect to aggregate ratios to achieve specific plastic and hardened properties. It will account for concrete materials from different sources and considers specific structural details and construction requirements in determining the appropriate mixture proportions.

Unique SCC Mixture Optimization



The SCC Mixture Optimization Tool is used to help concrete producers easily, quickly and accurately identify and develop economical concrete mixtures that will offer the following performance features:

- Excellent flow through both restricted and unrestricted spaces
- Good segregation resistance
- Excellent form-surface finish
- Low drying shrinkage

Using the Tool

If you are ready to implement or optimize self-consolidating concrete in your operations, the SCC Mixture Optimization Tool can be used to ensure the best possible mixture proportions.

Producers interested in using the SCC Mixture Optimization Tool should contact their local BASF sales representative. Information on the SCC application, raw material characteristics and other relevant data will be gathered and sent directly to the BASF Technical Center in Cleveland, Ohio. Following the analysis, results and recommendations will be communicated back to the sales representative for field verification at the producer's plant.

The SCC Mixture Optimization Tool has been used in projects around the world to improve the cost efficiency and performance of concrete mixtures. The analysis ensures producers can offer SCC mixtures that meet and exceed desired plastic and hardened properties.



More Information

The Master Builders Solutions brand brings all of BASF's expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures. Master Builders Solutions is built on the experience gained from more than a century in the construction industry.

The know-how and experience of a global community of BASF construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges. We collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide. We leverage global BASF technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make you more successful and drive sustainable construction.

The comprehensive portfolio under the Master Builders Solutions brand encompasses concrete admixtures, cement additives, chemical solutions for underground construction, waterproofing solutions, sealants, concrete repair & protection solutions, performance grouts, performance flooring solutions.

LIMITED WARRANTY NOTICE

We warrant our products to be of good quality and will replace or, at our discretion, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, BASF MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and BASF shall have no other liability with respect thereto. Any claims regarding product defect must be received in writing within one (1) year from the date of shipment. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the BASF Technical Manager.

This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights. BASF SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. BASF reserves the right to make any changes according to technological progress or further developments.

Contact

United States
23700 Chagrin Boulevard
Cleveland, Ohio 44122-5544
Tel: 800 628-9990 ■ Fax: 216 839-8821

Canada
1800 Clark Boulevard
Brampton, Ontario L6T 4M7
Tel: 800 387-5862 ■ Fax: 905 792-0651