



Self Consolidating Grout

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The Use of SCG

By: Chuck Ostrander

The use of self consolidated grout is one of the top 5 advancements to masonry technology for the designer to use and the contractor to use in the past 25 years. An engineer who only allows the use of low lift grouting is designing the masonry walls the way his father did. He's denying his client the ability to take in the economies of using high lift self consolidated grout for a more economical masonry wall assembly. Self consolidated grout and high lift grouting methods are now in the code. Many structural engineers use self consolidated concrete when it's appropriate in construction of roads and buildings. Hopefully, the same enlightened structural engineers that allow self consolidated concrete will start to accept and consider using self consolidated grout in their future projects and the associated high quality and economy for the clients.

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The History & Development of SCG

For Masonry Construction By: Nick Blohowiak

Masonry grout and the use of reinforced masonry have been employed in the United States since the mid 1800's as a means to expand the structural capabilities of masonry construction. The method has been essentially the same since its early introduction, add steel reinforcing into masonry cavities or concrete block cells and fill them with a cementitious grout making sure to vibrate or consolidate and reconsolidate as you fill these areas to eliminate voids. As masonry has progressed, the equipment has changed to increase the speed and ease of grout placement with the use of telescopic boom forklifts, hydraulic scaffolds, powered grout delivery hoppers and pumps but the material itself remained the same. That is until self consolidated grout burst into the masonry industry.

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Code Requirements for SCG By: Dennis Graber

Self-consolidating grout has been used in various parts of the United States, under the grout demonstration panel provisions of *Specification for Masonry Structures*, which is included by reference in the *International Building Code*. Under this provision, proposed grouting procedures, construction techniques, and grout space geometry may vary from the requirements of that standard if it can be demonstrated that the same or better performance can be achieved in the process. The 2008 edition of *Specification for Masonry Structures* however, includes explicit provisions for self-consolidating grout (SCG).

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