

Concrete Technology in Focus

Self-Consolidating Grout

For Reinforced Concrete Masonry Walls

What Is Self-Consolidating Grout?

Self-consolidating grout (SCG) is a highly-fluid and stable mixture used in low-lift and high-lift grouting of reinforced concrete masonry walls. SCG is a self-consolidating concrete (SCC) mixture that contains coarse aggregate with a maximum top size of 3/8 in. (9.5 mm). It also contains a MasterGlenium® high-range water-reducing admixture and a MasterMatrix® VMA viscosity-modifying admixture when needed. The mixture has a slump flow (spread) of greater than 24 in. (610 mm). SCG benefits the entire construction team including ready-mix producers, masonry contractors, and masonry producers.



SCG Features

- Highly fluid and stable grout mixture
- No grout segregation
- Requires no vibration or consolidation
- Excellent compressive strength
- Superior grout performance properties

SCG Benefits

- Quicker grout unloading from ready mix truck
- Easy pumping and placing
- Reduces construction time and labor costs
- Eliminates vertical CMU core voids
- Improves structural integrity of concrete masonry walls
- Can be used with normal weight and lightweight CMU's

SCG meets and exceeds today's high-performance grout demands. It is a superior alternative in any application where traditional grout is used. SCG saves time and money and provides greatly improved performance and structural integrity.

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High-Range Water-Reducing Admixtures

MasterGlenium high-range water-reducing admixtures are based on polycarboxylate chemistry. These new generation admixtures are very effective in producing SCG with customized levels of workability. Each MasterGlenium admixture is carefully formulated to provide specific performance attributes and to maximize a producer's ability to improve production efficiency for any given grout application.

Viscosity-Modifying Admixtures (VMA)

MasterMatrix viscosity-modifying admixtures are specially developed for producing grout with enhanced viscosity and controlled rheological properties. Grouts containing MasterMatrix VMA admixtures exhibit superior stability, thus increasing resistance to segregation and facilitating placement.

Other Admixtures & Products

BASF also offers a broad range of other beneficial admixtures including the full line of Master Builders Solutions brand accelerators (chloride and non-chloride based), water-reducers, retarders, air-entraining agents, mid-range water-reducers, corrosion inhibitors, silica fume, shrinkage-reducing admixtures, ASR inhibitors, water-repellent/efflorescence control admixtures, and more.

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.

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*Effective January 1, 2014, the names of BASF's Master Builders Solutions brand products have changed: Glenium became MasterGlenium
Rheomac VMA became MasterMatrix VMA

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