

# 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<sup>®</sup> high-range water-reducing admixture and a MasterMatrix<sup>®</sup> 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.





### High-Range Water-Reducing Admixtures

MasterGlenium high-range water-reducing admixtures are based on polycarboxylate chemistry. These new generation admixtures are very .

### 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 and Products

Master Builders Solutions also offers a broad range of other beneficial admixtures including the full line of 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.

### About Master Builders Solutions

Master Builders Solutions is a leading global manufacturer of concrete admixtures, as well as other sustainable solutions for the construction industry, focussed on delivering its vision: **Inspiring people to build better.** Master Builders Solutions provides value-added technology and market-leading R&D capabilities to improve the performance of construction

materials and to enable the reduction of CO2 emissions in the production of concrete. Founded in 1909, Master Builders Solutions has ca. 1600 employees operating 35 production sites globally, supporting their customers in mastering their building challenges of today – for a decarbonised future.

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