

SELF CONSOLIDATING GROUT (SCG)-Coarse (Portland : Coarse Sand : Gravel : Admixtures)

1. PRODUCT NAME

SPEC MIX® Self Consolidated Grout-Coarse

2. MANUFACTURER



Quikrete Chicago

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3. PRODUCT DESCRIPTION

General

-SELF CONSOLIDATING GROUT (SCG) is a highly fluid and stable grout mix that is easy to place and does not require consolidation or reconsolidation. SCG's mix design is significantly different from conventional grout and includes admix-tures to reduce water content and increase fluidity allowing the material to completely fill the cavity it's placed in and encapsulate reinforcing steel. This product does not segregate or generate bleed water.

Basic Use

-SCG-COARSE is a highly fluid masonry grout with low water content used to fill voids in the masonry assemblage and bind together the masonry units, mortar and existing reinforcement into a single composite assemblage. It is a fluid mixture of cementitious materials, aggregate and

admixtures with a lower water content and high fluidity for ease of placement.

-SCG-COARSE may be used where the grout spaces in the brick masonry are 1½ inches or more in width horizontally and of the block the minimum cell dimensions are 1½ x 3 inches.

-Although approved aggregates for grout (sand and pea gravel) are limited to a maximum size of 3/8 inch, if the grout space is wide (8 inches or more horizontally between the brick wythes) a coarse grout using ¾ inch aggregate may be used.

-The actual grout space or grout cell dimensions must be larger than the sum of the following items: (1) The required minimum dimensions of total clear areas in Table No. 24-G; (2) The width of any mortar projections within the space; and (3) The horizontal projections of the diameters of the horizontal reinforcing bars within a cross section of the grout space or cell.

-The minimum dimensions of the total clear areas shall be made up of one or more open areas with at least one area being ¾ inch or greater in width.

Composition and Materials

- Type I Portland Cement (ASTM C 150) "Standard Specification for Portland Cement"
- Coarse Aggregate (ASTM C 404), "Standard Specification for Aggregates for Masonry Grout"
- Admixtures (ASTM C 494) "Standard Specification for Chemical Admixtures for Concrete"

4. INSTALLATION

Mixing

- SCG-COARSE shall be mixed and placed so that all spaces designated to be grouted shall be filled with grout and the grout shall be confined to those specific spaces. Webs shall be fully bedded.
- Mix grout with enough water to generate a 22" to 30" spread (optimum is 26" to 28") from an inverted concrete slump cone.
- Mix SCG for a minimum of 3 minutes to allow admixtures to activate.

Field Sampling & Testing

- When testing grout follow ASTM C-1019 "Standard Test Method for Sampling and Testing Grout".
- DO NOT MEASURE FOR SLUMP.
- Follow ASTM C 143, "Test Method for Slump For Hydraulic Cement Concrete." Samples for compressive testing should be mixed with enough water to generate a spread of 22" to 30"
- Cylinder or cube samples of grout are not allowed.
- During construction, grout is placed within or between absorptive masonry units. Excess water must be removed from grout specimens in order to provide compressive strength test results more indicative of the grout strength in the wall. In this test method, molds are made from masonry units having the same absorption and moisture content characteristics as those being used in the construction.
- Cover packaged material at all times.

TABLE NO. 24-G GROUTING LIMITATIONS

MINIMUM DIMENSIONS OF THE TOTAL CLEAR AREA WITHIN GROUT SPACES AND CELL

Grout Type	Grout Pour Max. Height (Feet)	Multi- Wythe Masonry	Hollow- Unit Masonry
Coarse	1	1 1/2	1 1/2 x 3
Coarse	5	2	2 1/2 x 3
Coarse	8	2	3 x 3
Coarse	12	2 1/2	3 x 3
Coarse	24	3	3 x 4

SELF CONSOLIDATING GROUT (SCG)-Coarse (Portland : Coarse Sand : Gravel : Admixtures)**5. LEED INFORMATION****Applicable Credits:**

- MR Credit 4.1
- MR Credit 4.2
- MR Credit 5.1
- MR Credit 5.2
- Pre Consumer
 - Recycled Content 4.3%
- Local Harvest Content..... 77%
- Production Location
 - City..... Elburn
 - State..... Illinois
 - Zip.....60119
- 100% harvested w/in 500 miles

6. TECHNICAL DATA**Applicable Standards**

- ASTM C 476, "Standard Specification For Grout For Masonry"
- ACI 530 "Building Code Requirements For Masonry Structures"
- ACI 530.1 "Specification For Masonry Structure"

7. PHYSICAL PERFORMANCE**Minimum Compressive Strength (ASTM C 476)**

7 Day 4,793 psi
 28 Day 7,767 psi
 Spread27 in.
 April 11, 2007

Air Content (ASTM C 173)

2%

ACI 530**-Grout References:**

- Part 1 (General)
 - 28-day 2,000 psi minimum requirement
 - or ASTM C 476
- See PCI Grout Data Sheet

8. TECHNICAL SERVICES**Quikrete Chicago**

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9. SAFETY/HEALTH

- Refer to M.S.D.S. for safety/health info.

10. WARRANTY

SPEC MIX, Inc warrants this product to be of merchantable quality when used or applied in accordance with the instructions hereon. This product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is LIMITED to the replacement of the product (as purchased) if found to be defective, or at the shipping companies' option, to refund the purchase price. All claims under this warranty must be written and submitted to SPEC MIX, Inc.