

3,000 psi FINE GROUT (Portland : Coarse Sand)

1. PRODUCT NAME

SPEC MIX® 3,000 psi Fine Grout

2. MANUFACTURER



Quikrete Chicago

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Elburn, IL 60119
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3. PRODUCT DESCRIPTION

General

-Grout is a high slump concrete 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 and aggregate with high water content for ease of placement.

Basic Use

-Fine Grout is used in walls or areas where the grout space is small, narrow, or too congested because of the reinforcing steel. The Uniform Building Code, Table No. 24-G gives grouting limitations for fine grout based upon the maximum height of pour, the width of the grout space in multi-wythe masonry, and the cell dimensions for grouted hollow unit masonry.
-See also Section 2404 (f).
-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 1/2 inch or greater in width.

Composition and Materials

-Type I Portland Cement (ASTM C 150) "Standard Specification for Portland Cement"
-Fine Aggregate (ASTM C 404), "Standard Specification for Aggregates for Masonry Grout"

4. INSTALLATION

Mixing

-Grout 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.
-Grout materials and water content shall be controlled to provide adequate fluidity for placement without segregation of the constituents, and shall be mixed thoroughly.

Field Sampling & Testing

-When testing grout follow ASTM C 1019 "Standard Test Method for Sampling and Testing Grout".
-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.

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

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
Fine	1	1/2	1 1/2 x 2
Fine	5	1 1/2	1 1/2 x 2
Fine	8	1 1/2	1 1/2 x 3
Fine	12	1 1/2	1 1/2 x 3
Fine	24	2	3 x 3

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6. TECHNICAL DATA

Applicable Standards

- ASTM C 138, "Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete"
- ASTM C 157, "Standard Test Method for Length Change of Hardened Hydraulic-Cement Mortar and Concrete"
- ASTM C 173, "Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method"
- ASTM C 476, "Standard Specification For Grout For Masonry"
- ASTM C 567, "Standard Test Method for Determining Density of Structural Lightweight Concrete"
- ACI 530 "Building Code Requirements for Masonry Structures"
- ACI 530.1 "Specification for Masonry Structure"

7. PHYSICAL PERFORMANCE

Minimum Compressive Strength (ASTM C 476)

28 Day..... 3,201 psi
Slump10 in.

Air Content (ASTM C 173)

4%

Oven Dry Density (ASTM 567)

Oven Dry 124.4 lbs/cu.ft.

Equilibrium Density (ASTM 567)

130.9 lbs/cu.ft.

Unit Weight (ASTM C 138)(Wet)

138.0 lbs/cu.ft.

Length Change (ASTM C 157)

- 0.003% @ 7 Days
- 0.032% @ 28 Days

ACI 530

-Grout References:

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

8. TECHNICAL SERVICES

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9. SAFETY/HEALTH

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

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.