



SPECCRETE® CONSTRUCTION GRADE GROUT

NON-SHRINK NON-METALLIC CEMENTITIOUS UTILITY GROUT

SPECCRETE® CONSTRUCTION GRADE GROUT is a pre-blended, non-shrink, non-ferrous, high strength cementitious grout that is used to compensate for the normal shrinkage of mortar and concrete and to absorb and minimize the effects of vibration on foundations. **Construction Grade Grout** is non-corrosive, non-staining and meets the non-shrink requirements of **CRD C-621**. Some common grouting applications for **Construction Grade Grout** include: Structural columns, pump equipment and machinery bases, bearing plates, dowel and rebar placement, rail posts, seating bolts, and precast tee joints.

BENEFITS:

- **May be used from dry pack to flow-able**
- **Contains no added chlorides**
- **Controlled expansion**
- **High strength**
- **Non-corrosive, non-staining, and non-metallic**

LEED CREDIT CONSIDERATIONS: Materials and Resources: **MR Credits 5.2:** Regional materials- Greater than 20% extracted, processed & manufactured regionally at production location: Lemont, IL. 60439. 90% Content- Harvested within 500 miles.

COMPOSITION: Portland cement, selected aggregates and chemical additives. This product contains no calcium chloride or intentionally added chlorides that contribute to reinforcement steel corrosion.

TECHNICAL DATA: *Speccrete® Construction Grade Grout* complies with ASTM C-1107 Grade C, CRD C-621, ASTM C109, ASTM C-348, CRD –C588, CRD C-226, CRD C-266, ASTM C-588, AASHTO T-161B.

WORKING & PERFORMANCE PROPERTIES @ 70°F (APPROXIMATE) & FLOWABLE CONSISTENCY:			
Yield per 50 lb. / 22.68 kg Bag:		0.45 cubic feet / 0.013 cubic meters	
Initial Set per ASTM C-191 (Vicat Method):		60 Minutes	
Final Set per ASTM C-191 (Vicat Method):		80 Minutes	
COMPRESSIVE STRENGTHS ASTM C-109 (PSI):	PLASTIC CONSISTENCY: 3.5 QTS = 14.57% W/P	FLOWABLE CONSISTENCY: 3.8 QTS = 15.82% W/P	FLUID CONSISTENCY: 4.3 QTS = 17.91% W/P
1 day:	5,560	5,100	4,300
3 days:	9,125	8,650	7,100
7 days:	10,100	9,300	8,100
14 days:	10,540	10,050	8,900
28 days:	11,100	10,300	9,650
CHLORIDE CONTENT:		<0.005%	

DIRECTIONS FOR USE: All areas to be grouted should be clean and free of oil, grease, dirt and all contaminants. All metal components shall be free of rust, paint or oils. Thoroughly saturate the area to be grouted with potable water for a minimum of twelve hours prior to the placement of **Construction Grade Grout**. Remove excess water from holes and voids just prior to grout placement. Where required, air relief openings shall be provided to avoid entrapment of air. Forms for base plates and machinery bases should be set to allow for rapid and continuous placement and complete filling of the space to be grouted. Wooden surfaces that can absorb moisture should be pre-treated with form oil. Support elements should be anchored so that no movement is possible. Edges of concrete to be grouted which are less than one inch deep shall be cut back to form a uniform butt. Forms should be tight and left in place for a minimum of twenty-four (24) hours to accommodate the positive expansion of the grout. **Construction Grade Grout** requires only the addition of water.

MIXING: More or less water may be added to **Construction Grade Grout** to meet the consistency requirements of your application, thus increasing or decreasing yield and strength. Use cold water, 45° to 60° F for mixing. No other materials should be added. Mix **Construction Grade Grout** using a mortar mixer. Mixing time is under five minutes. The mixed product should be placed immediately after mixing. Concrete mixers, vertical shaft mixers or propeller mixers are not recommended.

RECOMMENDED WATER RATIO PER 50 LB. BAG CONSTRUCTION GRADE GROUT:



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CONSISTENCY:	WATER REQUIREMENT:
Dry Pack:	2.7 quarts = 11.24%
Stiff:	3.0 quarts = 12.49%
Plastic:	3.5 quarts = 14.57%
Pumpable:	3.7 quarts = 15.41%
Flowable:	3.8 quarts = 15.83%
Fluid:	4.3 quarts = 17.90%

CAUTIONS: *Construction Grade Grout* should **not** be used as a structural repair mortar, as an overlay mortar topping, or in unconfined areas. The temperature of the mixed grout should be between 45° and 70° F. Do not use hot water for mixing. Do not over water. When frothing occurs on the wet mix surface, the mix is too wet for any application. Do not apply to frozen, frost filled or hot surfaces. *Construction Grade Grout* should be placed in accordance with ACI standard grouting procedures. Use chains, rods or tamping devices to compact grout tightly, completely removing all air voids. Place grout quickly and continuously. Finished *Construction Grade Grout* should be cured by standard ACI methods. For grouting deep fills, greater than 2", *Construction Grade Grout* can be extended with the addition of up to 50% (approx. 25 lbs) clean, washed, 3/8" pea gravel, by volume. Use of any extension aggregates will alter physical properties as listed. Do not exceed a length to width ratio of 2 to 1 for the repair area. Clean mixing equipment between batches. Protect from excessive sun, low humidity, rain and wind exposure, as well as temperature extremes that could prevent inadequate curing. Refer to ACI 306.1 report "Standard Specification for Cold Weather Concreting" for recommended protection methods of concrete placement in sub-freezing temperatures. Colder temperatures will extend open time and reduce rate of strength gain. Do not add calcium chloride or other accelerator type admixtures to *Construction Grade Grout*.

GHS HAZARD RATINGS: DANGER:



IRRITANT
RESPIRATORY TRACT IRRITATION



HEALTH HAZARD
KNOWN CARCINOGEN



HEALTH HAZARD
CORROSIVE MATERIAL

WARNINGS: HEALTH HAZARD & IRRITANT: THIS PRODUCT CONTAINS BOTH PORTLAND CEMENT & CRYSTALLINE SILICA (A KNOWN CARCINOGEN). IT IS ESTABLISHED THAT PROLONGED BREATHING OF CRYSTALLINE SILICA DUST OVER TIME WILL INCREASE THE RISK OF SERIOUS LUNG DISEASE (SILICOSIS). REFER TO PRODUCT S.D.S. (SAFETY DATA SHEET) FOR FIRST AID INFORMATION, OR ANY RELATED HEALTH AND SAFETY INFORMATION BEFORE USING THIS PRODUCT. FOR MEDICAL EMERGENCIES ONLY, CALL INFOTRAC AT 800-535-5053.

FOR INDUSTRIAL USE ONLY, KEEP OUT OF REACH OF CHILDREN. Avoid Inhalation of these dusts and any prolonged, direct contact with skin. Wear chemical resistant gloves, safety goggles, and O.S.H.A. /N.I.O.S.H. approved respirator during mixing and placement. Keep away from food and drink. Wash hands thoroughly after use and before eating. Do not take internally.

NPCS HMIS SAFETY RATINGS: HEALTH = 2, FLAMMABILITY = 0, REACTIVITY = 0, PROTECTION = E

PACKAGING: 50 lb. (22.70 kg) bags **STORAGE:** 40°F to 90°F in a dry, climate protected warehouse. **SHELF LIFE:** 1 year properly stored

FREIGHT CLASS: Item #42130, Sub 0, Freight Class 50 -Cement base patching material in bags

WARRANTY: Specco Industries Inc (Specco) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Specco, no other representations or statements made by Specco or its representatives, in writing or orally, shall alter this warranty. **SPECCO MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME.** If any Specco product fails to conform with this warranty, Specco will replace the product at no cost to Buyer. **Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages.** Specco does not authorize anyone on its behalf to make any written or oral statements which in any way alter Specco's installation information or instructions in its product literature or on its packaging labels. **Specco explicitly excludes any written or oral statements or implied warranty on the performance of an applied/installed product manufactured or sold by or through Specco. Specco has no control over Specco application standards adherence, site conditions, atmospheric variations, installer/applicator skill level or the determination of the suitability of any Specco products for a specific intended purpose. Buyer shall be solely responsible for determining the suitability of Specco's products for the Buyer's intended purposes.** Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind.

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