



SPECCRETE® 14K GROUT

HIGH STRENGTH, NON-SHRINK CEMENTITIOUS GROUT

SPECCRETE® 14K Grout is a pre-blended, non-shrink, non-ferrous, high strength multiple use material, which can be mixed from dry pack to flowable consistencies. Some common grouting applications for **Speccrete® 14K Grout** include: structural columns, pump equipment and machinery bases, bearing plates, dowel and rebar placements, rail posts, and seating bolts.

BENEFITS:

- High early compressive strengths
- Ideal for heavy loads
- Early loading provides reduced down times
- Controlled expansion
- May be used from dry pack to flowable

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

COMPOSITION: Portland / calcium sulfo-aluminate based cements, selected aggregates and chemical additives. This product contains **no** calcium chloride or added chlorides that contribute to reinforcement steel corrosion.

TECHNICAL DATA: **Speccrete® 14K Grout** complies with ASTM C-1107 Grade B, 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 @ FLOWABLE CONSISTENCY / 70°F (21°C) (APPROXIMATE):	
Yield per 50 lb. / 22.68 kg Bag*:	0.43 cubic feet / 0.021 cubic meters
Initial Set per CRD C-C82:	84 Minutes
Final Set per CRD C-C82:	135 Minutes

**One 50 lb. bag yields a minimum of 0.40 cu. ft. (0.011cu. m) depending on selected final consistency*

COMPRESSIVE STRENGTH PER ASTM C-109	PLASTIC-MINIMUM FLOW PER ASTM C-1437	FLOWABLE-MODERATE FLOW PER ASTM C-1437	FLUID- HIGH FLOW PER ASTM C-939
1 day	9700 psi	8880 psi	8250 psi
3 days	10200 psi	9350 psi	8700 psi
7 days	12800 psi	9810 psi	9300 psi
28 days	14100 psi	12480 psi	11600 psi

HEIGHT/ LENGTH CHANGE OF MOIST CURED HARDENED GROUT PER ASTM C-1090/ C157:	RESULT:	ASTM C-1107 SPECIFICATIONS:
1 day	+0.05	+0.30 max.%,0.0 min.%
3 days	+0.05	+0.30 max.%,0.0 min.%
14 days	+0.03	+0.30 max.%,0.0 min.%
28 days	+0.02	+0.30 max.%,0.0 min.%
EARLY AGE HEIGHTS CHANGE % AT FINAL SET PER ASTM C-827:	+0.20	+4.0% max.





DIRECTIONS FOR USE: SURFACE PREPARATION: All areas to be grouted shall 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 prior to the placement of **Speccrete® 14K 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 the positive expansion of the grout.

MIXING: Refer to the water requirement chart below for product consistency options. Small quantities may be mixed by hand, larger quantities may be mixed using a slow speed motor and paddle mixer or a rotary mixer. Mix for approximately 5 minutes. Do not mix more material than can be placed in 60 minutes. The temperature of the mixed grout should ideally be between 45° F to 70° F. Use only potable water for mixing. Clean mixing equipment between batches. When mixing Speccrete® 14K Grout, the water-to-powder ratio is very critical, do not vary the specified water amount or over water. When frothing or foaming occurs on the wet mix surface, the mix is too wet for any application. Do not re-temper.

APPLICATION-PROCEDURES PLACEMENT: *Speccrete® 14K Grout* should be placed immediately after mixing in accordance with ACI standard grouting procedures. Use chains, rods or tamping devices to compact grout tightly, removing all air voids. Place grout quickly and continuously. **CURING;** Finished *Speccrete® 14K Grout* should be cured by standard ACI methods. **EXTENSION:** For grouting deep fills, greater than 2", *Speccrete® 14K Grout* can be extended with clean, washed 3/8" pea gravel in the range of 13 to 26 pounds (1-2 gallons) per 50 lb. bag. If adding dry pea gravel, additional water should be added at a rate of 0.4 gallon per gallon of aggregate. If adding "pre-wet" or damp gravel, then no additional water should be added.

RECOMMENDED WATER ADDITION PER 50 LB. BAG SPECCRETE® 14K GROUT:	
CONSISTENCY:	WATER REQUIREMENT:
Dry Pack:	2.55 quarts (2.40 liters)
Stiff:	2.75 quarts (2.60 liters)
Plastic:	3.00 quarts (2.83 liters)
Flowable:	3.54 quarts (3.34 liters)
Fluid:	4.25 quarts (4.01 liters)

NOTE-Use the minimum water necessary to achieve the required working consistency.

APPLICATION-CAUTIONS: *Speccrete® 14K Grout* should **not** be used as a structural repair mortar, as an overlay mortar topping, or in unconfined areas. Protect from excessive sun, low humidity, rain and wind exposure, as well as temperature extremes that could prevent inadequate curing. Do not apply to frozen, frost filled or hot surfaces. Do not apply during freezing weather unless proper heat protection preparation and methods are used to protect the repair. 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 *Speccrete® 14K Grout*.

GHS HAZARD RATINGS: DANGER:



IRRITANT
RESPIRATORY TRACT IRRITATION



HEALTH HAZARD
KNOWN CARCINOGEN



HEALTH HAZARD
CORROSIVE MATERIAL



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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 SDS (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

SHELF LIFE: 1 year properly stored

FREIGHT CLASS: Item #42130, Sub 0, Freight Class 50 -Cement based grouting 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. **REVISED 11-01-19**



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