

SPECCRETE® CONSTRUCTION GRADE GROUT NS

NON-SHRINK NON METALLIC CEMENTITIOUS UTILITY GROUT

PRODUCT DESCRIPTION: Specco Speccrete ® Construction Grade Grout NS 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 NS is non-corrosive, non-staining and meets the non-shrink requirements of CRD C-621. Some common grouting applications for Construction Grade Grout NS include: Precast panels, structural columns, pump equipment and machinery bases, bearing plates, dowel and rebar placement, rail posts, seating bolts, precast tee joints, and repairing structural cracks.

BENEFITS: IDEAL AS BEDDING GROUT FOR PRECAST PANELS...MAY BE USED FROM DRY PACK TO FLOWABLE... CONTAINS NO ADDED CHLORIDES...NON-CORROSIVE...NON-STAINING...NON-METALLIC.

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 NS complies with CRD C-621, ASTM C-1107-TYPE C, ASTM C109, ASTM C-348, CRD –C588, CRD C-226, CRD C-266, ASTM C-588, AASHTO T-161B.

WORKING & PERFORMANCE PROPERTIES @ 70°F (21°C) (APPROXIMATE):	
Yield per 50 lb. / 22.68 kg Bag:	0.45 cubic feet / 0.013 cubic meters
Initial Set per CRD C-C82:	2 hours 30 minutes
Final Set per CRD C-C82:	4 hours 15 minutes

COMPRESSIVE STRENGTHS PER CRD-227:	FLOWABLE CONSISTENCY – PER ASTM C –1437:
1 day:	1525 psi 10.67 mpa
3 days:	2875 psi 20.12 mpa
7 days:	3325 psi 23.27 mpa
14 days:	4450 psi 31.15 mpa
28 days:	7040 psi 49.28 mpa

CHLORIDE CONTENT:	<0.005%
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DIRECTIONS FOR USE: 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 for a minimum of twelve hours prior to the placement of Construction Grade Grout NS. 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. If forms are needed for confined area repairs, they should be kept tight leaving minimal exposed surface, and can be removed after final set is achieved to carve or shape exposed profile to grade.

Construction Grade Grout NS requires only the addition of water. More or less water may be added to Construction Grade Grout NS 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 NS using a mortar mixer. Concrete mixers, vertical shaft mixers or propeller mixers are not recommended. Mixing time should be kept under five minutes. Construction Grade Grout NS should be placed within 15 minutes after mixing.

Recommended water ratio per 50 lb. bag Construction Grade Grout NS:

CONSISTENCY:	WATER REQUIREMENT/ BAG (water to powder ratio%):
Dry Pack:	3.3 quarts - 13.8%
Stiff:	3.7 quarts - 15.5%
Plastic:	3.9 quarts - 16.3%
Pourable:	4.5 quarts - 18.9%
Pumpable:	4.7 quarts - 19.6%
Flowable:	4.9 quarts - 20.4%

Specco Construction Grade Grout NS 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 NS should be cured by standard ACI methods. For grouting deep fills, greater than 4", Construction Grade Grout NS may be extended with the addition of up to 50% clean, washed, 3/8" Pea gravel, by volume.

CAUTIONS: 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.

WARNINGS: Contains cement and silica, avoid inhalation of dust. Wear gloves, safety goggles, and OSHA approved dust respirator during mixing and placement. Refer to product M.S.D.S. (Material Safety Data Sheet) for additional safety information. Do not take internally. Avoid prolonged contact with skin. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

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

PACKAGING: 50 lb. (22.70 kg) bags

STORAGE: 40°F to 90°F in a dry environment

SHELF LIFE: 1 year properly stored

FREIGHT CLASS: Item #42130, Sub 0, LTL 50- Cement based grouting material in bags or pails

LIMITED WARRANTY: This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be 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 upon inspection by the manufacturer. This limited warranty is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product.

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