

# **SPECCRETE® G-20 IRON GROUT**

## **METALLIC MODIFIED CEMENTITIOUS HIGH STRENGTH GROUT**

**PRODUCT DESCRIPTION:** Specco Speccrete® G-20 Iron Grout is a blend of Portland cement, selected processed aggregates, clean, coarse and fine iron particles, and specific chemical additives. Speccrete® G-20 is suitable for interior or exterior use and may be used in moist and humid conditions. Speccrete® G-20 is designed for grouting applications exposed to continued vibration or impact, and produces a tight surface oxidation and will not allow rusting of the inner iron particles. Due to the elongated shape of the iron particles in Speccrete® G-20, the product produces better vibration resistance than grouts containing round shape iron particles. Speccrete® G-20 is used for grouting anchor bolts, setting machinery structural members, embedding signs or posts in or on fully cured concrete.

**BENEFITS:** ELONGATED, COARSE IRON AGGREGATE ADD VIBRATIONAL STABILITY... HIGH COMPRESSIVE STRENGTHS AT ALL AGES ...QUICK SETTING...CONTAINS NO ADDED CHLORIDES...MIX WITH WATER ONLY

**COMPOSITION:** Portland cement, selected aggregates, iron particles and chemical additives.

**TECHNICAL DATA:** The following test results are based on a plastic consistency (120% flow) using a water to powder ratio of 3.85 quarts water per 60# bag. More or less water may be added to Speccrete® G-20 Iron Grout to meet the consistency requirements of your application as shown on reverse page, thus increasing or decreasing average yield and strength.

<b>WORKING &amp; PERFORMANCE PROPERTIES @ 70°F (21°C) (APPROXIMATE):</b>	
Yield per 60 lb. / 22.68 kg Bag:	0.47 cubic feet / 0.014 cubic meters
Initial Set per CRD C-C82:	60 Minutes
Final Set per CRD C-C82:	80 Minutes

<b>COMPRESSIVE STRENGTHS PER CRD-227:</b>	<b>PLASTIC CONSISTENCY – PER ASTM C -1437:</b>
1 day:	8,400 psi
3 days:	10,270 psi
7 days:	11,300 psi
28 days:	12,650 psi

<b>CHLORIDE CONTENT:</b>	<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 six hours prior to the placement of Speccrete® G-20 Iron 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 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. Forms should be tight and left in place for a minimum of twenty four hours to accommodate the positive expansion of the grout.

Specco Speccrete® G-20 Iron Grout requires only the addition of water. Use cold water, 45° to 60° F for mixing. No other materials should be added. Mix Speccrete® G-20 Iron Grout with enough water to make grout placeable. A stiff mix is desired. No water segregation is permitted. Mix only enough material that can be used within twenty minutes.

RECOMMENDED WATER ADDITION PER 60 LB BAG SPECCRETE® G-20 IRON GROUT:	
CONSISTENCY:	WATER REQUIREMENT:
Stiff:	3.30 quarts
Plastic (100-125% flow):	3.85 quarts
Flowable (125-145% flow):	4.30 quarts

Specco Speccrete® G-20 Iron 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. Do not dry tamp. Place grout quickly and continuously. After Speccrete® G-20 has reached initial set, damp cure for twenty four hours. In deep areas over 2 inches in depth, Speccrete® G-20 may be extended with clean, washed 3/8" pea gravel in the range of 13 to 26 pounds (1-2 gallons) per 60 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.

**CAUTIONS:** The temperature of the mixed grout should be between 45° to 70° F. Do not use hot water for mixing. Do not over water. . For temperatures below 40° F (4.4° C) use the minimum amount of water for improved strength and set properties. Use warm water and heated aggregates to keep the repaired area temperature above 60° F (16° C) if possible. Refer to ACI 306.1 report "Standard Specification for Cold Weather Concreting" for recommended protection methods of concrete placement in sub-freezing temperatures. Do not apply to frozen, frost filled surfaces. Colder temperatures will extend open time and reduce rate of strength gain. Do not add calcium chloride, bonding agents, or other admixtures to Speccrete® G-20. Use of any extension aggregates will alter physical properties.

**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, PROTECTION = E

**PACKAGING:** 60 lb. (27.2 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.

**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.

Revised – 01-05-09