

SPECCRETE® GUNITE MORTAR D.S.

DELAYED SET GUNITE MORTAR FOR DRY/ WET PROCESS

DESCRIPTION: Specco Speccrete® Gunitite Mortar D.S. is a ready to use, pre-packaged, high early strength cement mortar designed for general repair and restoration of concrete and masonry, using either the dry gunitite or wet mix shotcrete methods. Speccrete Gunitite Mortar D.S. can be used interior or exterior, in horizontal, vertical or overhead applications such as tunnel supports or linings, slope stabilization work, or general concrete rehabilitation. Speccrete® Gunitite Mortar D.S. is pre-blended for ideal consistency and formulated for low water permeability and freeze-thaw resistance. Speccrete® Gunitite Mortar D.S. contains silica fume and other additives for improved adhesion with thicker layers, resulting in a greater shooting efficiency with reduced rebound and sag.

BENEFITS: D.S. (DELAYED SET) FOR EXTENDED TROWELING TIME FOR FINISHING...IMPROVED ADHESION...LOW REBOUND...NON-CORROSIVE...NON-SHRINKING.

COMPOSITION: Blend of pozzolan-modified cements (meets ASTM C-595 Type IP MS), selected aggregates, silica fume, non-chloride accelerators and added ingredients.

TECHNICAL DATA:

PHYSICAL PROPERTIES at 70° F (21°C):	APPROXIMATE VALUES:
Initial set per ASTM C-266:	2 Hours
Final set per ASTM C-266:	3 Hours, 20 Minutes
Yield per 50# Bag:	0.5 cubic feet / 0.013 cubic meters
24 hours compressive strength per ASTM C-109:	4550 psi
48 hours compressive strength per ASTM C-109:	5400 psi
28 days compressive strength per ASTM C-109:	7200 psi

***Above strength data was from the wet mix recommended water to powder ratio of 15.98%**

DIRECTIONS FOR USE: Areas to be shotcreted shall be clean and free of oil, grease, dirt, deteriorated concrete and all contaminates. If necessary, abrade the area to be coated to provide a bondable surface, minimum 1/4" profile. Pre-wet the prepared surface with potable water just prior to shotcreting.

MIXING: DRY MIX METHOD: Place Speccrete® Gunitite Mortar D.S. powder into the shotcrete hopper and add water at the nozzle. The mortar consistency should be "plastic" or as a firm jelly. Observe the consistency of the mortar at all times to minimize rebound. Use proper air pressure to obtain an even pass and smooth surface. Maintain a distance of 4 feet between the nozzle and the surface, holding the nozzle at a 90° angle to the surface. If needed, at approximately 10 minutes after initial set, scrape or smooth the shotcrete surface as required.

MIXING: WET MIX METHOD: MIXING: Add the recommended mix water (8.00 lbs or 0.96 gallon) to the running mixer and slowly add the bag of Speccrete® Gunitite Mortar D.S. Let the material mix for 3-5 minutes, then add any additional water if needed to achieve the desired slump. Do not exceed 8.30 lbs. (1.00 gallon) water per 50 lb. bag of Speccrete® Gunitite Mortar D.S. Continue mixing until the material has reached a continuous, homogenous mix. The mortar consistency should be "plastic" or as a firm jelly. Observe the material as described above in the dry mix process, following all ACI general guidelines for shotcrete.

CURING: Proper curing of Speccrete® Gunitite Mortar D.S. is extremely important and should be performed in accordance with ACI recommendations. Use water mist spray, wet burlap or a quality-curing compound such as Specco Envirocure 1315.

CAUTIONS: Surface temperature must be 45° F and rising. Minimum application thickness is 1/4". When estimating coverage rates, make allowances for rebound, cut off, and waste. Use only potable water for mixing. Clean mixing equipment between batches. Do not apply to frozen, frost filled or hot surfaces. Do not apply during freezing weather.

WARNINGS: Contains cement and silica, avoid inhalation of dust. Wear gloves during the mixing and placement of material. Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. Keep away from food and drink. Do not take internally. Refer to product M.S.D.S. (Material Safety Data Sheet) for further health and safety information. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

H.M.I.S. CODES: HEALTH = 1, FLAMMABILITY= 0, REACTIVITY = 0, PERSONAL PROTECTION = C (GLOVES, GOGGLES, APRON)

SHIPPING NAME: Concrete Coating –cementitious powder base - Not regulated

SHIPPING CLASS: ITEM 42130, SUB 2, LTL 50

PACKAGING: 50 lb. bag (22.70 kg), 2500 lb. bulk bag (1136.36 kg)

STORAGE: 40° to 90° F. Store in a dry place.

SHELF LIFE: 1 year properly stored

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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