

SPECCRETE® SHB-200AP**ACCELERATED SETTING CEMENTITIOUS HIGH BUILD REPAIR MORTAR**

DESCRIPTION: Specco Speccrete® SHB-200AP is a single component, ready to use, multi-purpose, polymer modified, cementitious repair mortar designed for general repairs to concrete, mortar and masonry substrates. Speccrete® SHB-200AP may be used interior or exterior, in horizontal, vertical or overhead applications for repair to bridges, precast concrete, industrial plants, building facades, etc. using either a low pressure wet spray process or hand troweling methods. Speccrete® SHB-200AP is pre-blended for ideal consistency and formulated with low density, lightweight aggregates to allow high build applications on vertical and overhead surfaces. Speccrete® SHB-200AP contains a polymer latex additive that will improve bond strength and eliminate the need for a separate two component liquid additive.

BENEFITS: POLYMER MODIFIED FOR IMPROVED BOND...LIGHT WEIGHT FORMULATION PROVIDES HIGH YIELD...LOW WET MIX DENSITY ALLOWS APPLICATION UP TO 3" ON VERTICAL SURFACES IN ONE LAYER...EXCELLENT ADHESION...LOW PERMEABILITY PROVIDES EXCELLENT FREEZE / THAW RESISTANCE

COMPOSITION: Proprietary blend of cement, plasticizers, silica fume, latex polymer, rheology modifying additives and selected aggregates for weight reduction, improved finishing, and shrinkage compensation. This product contains no calcium chloride or intentionally added chlorides that contribute to reinforcement steel corrosion.

TECHNICAL DATA:**WORKING AND PERFORMANCE PROPERTIES @ 70° F (21° C) APPROXIMATE VALUES ***

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| Density (Wet mix) per ASTM C 138: | 110 lbs./cu.ft. (1.73 kg. /cu.me.) |
| Working time: | 25 minutes |
| Initial set per ASTM C-191 (Finishing time): | 40 minutes |
| Final set per ASTM C191: | 1 hour 20 minutes |
| Yield: | 0.55 cubic feet per 50# unit |

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| Compressive Strength per ASTM C-109: | Results: |
| 24 hours: | 2800 psi (19.2 MPa) |
| 3 days: | 4700 psi (32.2 MPa) |
| 28 days: | 6800 psi (46.6 MPa) |
| Flexural Strength per ASTM C 348: | - |
| 28 days: | 1315 psi (9.2 Mpa) |
| Slant Shear Bond Strength per ASTM C-882**: | - |
| 28 days | 2110 psi (16.7 MPa) |

*Above results were obtained using an approximately liquid / powder ratio of 18.25% = 4.40 quarts water per 50 lb. bag ** C-882 modified method- mortar scrubbed into substrate

SURFACE PREPARATION: Areas to be treated shall be clean and free of oil, grease, dirt, deteriorated concrete and all contaminants that would prohibit bonding of the coating. Surfaces should be prepared using high pressure water blasting, scabblers or other mechanical means to obtain an exposed aggregate surface profile of + or - 1/16 inch of structural integrity. Saw cut the edges of any concrete repairs to a minimum depth of 3/8 inch (10mm) to avoid featheredging and to provide a square edge. The entire repair area should be removed to this depth along the sawn edge. Substrate should be saturated surface dry (SSD) with no standing water during the application. Mechanically clean all reinforcing steel to remove all oxidation.

MIXING: Place 4.40 quarts of water in the mixing container and slowly add 50# of Speccrete® SHB-200AP while continuously mixing with a mechanical low speed drill and paddle mixer. Larger quantities may be mixed in a mortar mixer. Adjust water to the desired consistency of the mortar, but do not exceed 19.5% water to powder = 1.17 gallon (4.70 quarts) per 50# bag. Mix Speccrete SHB-200AP to a uniform consistency for a minimum of three minutes.

APPLICATION: Substrate should be saturated surface dry (SSD) with no standing water. Using a stiff brush apply a slurry coat of the mixed material scrubbing thoroughly into the face of the substrate to ensure proper bonding of the repair mortar. Speccrete® SHB-200AP may be applied by hand or by wet spray process. Speccrete® SHB-200AP may be applied up to 3" (75mm) thickness on vertical surfaces and up to 1.5" (38mm) overhead in one lift. Before the bond coat dries, work the material into the primed surface filling all voids. Compact the mortar around exposed reinforcing steel. Strike off the material with a straightedge and finish with a steel trowel. Wooden or plastic floats and sponges may be used to provide the desired surface texture. Where multiple lifts are required, score the top on each lift to provide a mechanical key for the next lift. Allow preceding lift to harden and pre-wet with potable water before applying fresh material.

When using the wet process application by low pressure spray, allow the first application to stiffen before leveling. Before applying a second layer, allow the first coat to reach initial set. Proper curing of Speccrete® SHB-200AP Repair Mortar is extremely important and should be performed in accordance with ACI recommendations which will vary depending on weather and temperature conditions. At ambient temperatures, use moist curing or a quality water base curing compound such as Specco Envirocure 1315.

CAUTIONS: Use Speccrete® SHB-200AP Repair Mortar when the surface temperature is 45° F (7° C) and rising. Do not apply if the temperature is expected to fall below 40° F (4° C) within 24 hours of application. Maximum application thickness in one lift is 3" (75mm) on vertical and 1.5" (38mm) overhead. If Speccrete® SHB-200AP sags at any point during application, completely remove the material, re-prime the substrate, and re-apply the mortar at a reduced thickness. Do not overwork the completed surface. Minimum application thickness is 1/8 inch (3mm). Do not cure with solvent based curing compounds.

WARNINGS: Contains cement and silica, avoid inhalation of dust. Wear gloves, safety goggles, and NIOSH/MSHA approved dust respirator during mixing and placement. Use only with adequate ventilation. 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. If inhalation or exposure causes any physical discomfort or irritation that persists, SEEK MEDICAL ATTENTION.

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

PACKAGING: 50 lb. bag (22.70 kg)

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

SHELF LIFE: 1 year properly stored

FREIGHT CLASS: Item 42130, Sub O, LTL 50

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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