



# SPECCRETE® SPEED REPAIR

## QUICK SETTING CONCRETE PATCHING MORTAR

**SPECCRETE® Speed Repair** is a general purpose cement based patching mortar for concrete and masonry that requires only the addition of potable water for mixing. **SPECCRETE® Speed Repair** can be shaved to level the repair back to uniform condition and exhibits high compressive and bond strengths, along with good weathering properties. Primary uses include concrete pipe, manholes, curbs without forming, walls, panels, ceilings and highway applications. **SPECCRETE® Speed Repair** is formulated to a concrete gray color, however, is also available in a “Light” formulation for a more consistent shade match on lighter substrates.

### BENEFITS:

- Ideal for vertical and overhead repairs
- Excellent trowelability and carvability
- 28 day compressive strengths in excess of 6000 psi.
- Can be shaped or molded easily
- Available in standard or light color blend versions

**COMPOSITION:** Proprietary blend of cement, water reducers, rheology modifying additives and selected aggregates for improved finishing and carvability. This product contains no calcium chloride or intentionally added chlorides that contribute to reinforcement steel corrosion.

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

### TECHNICAL DATA:

WORKING AND PERFORMANCE PROPERTIES @ 70° F (21° C) APPROXIMATE VALUES *	
Initial set per ASTM C-191 (Finishing time):	8-10 minutes
Final set per ASTM C191:	18-20 minutes
Coverage per 45 lb. bag:	22 square feet at 1/4 inch thickness
Yield per 45 lb. bag:	0.45 cubic feet
Compressive Strength per ASTM C-109: 24 hour:	3150 psi
Compressive Strength per ASTM C-109: 7 day:	5350 psi
Compressive Strength per ASTM C-109: 28 day:	6170 psi
Tensile Strength per ASTM C- 190: 7 day:	315 psi
Tensile Strength per ASTM C- 190: 28 day:	400 psi
Flexural Strength per ASTM C-78: 28 day:	930 psi
Freeze Thaw Durability per ASTM C-666: 310 cycles:	96.70 %
Shrinkage 50% RH per ASTM C-157: 28 day:	-0.029%
Expansion 100% RH per ASTM C-157: 28 day:	0.020%
Scaling Resistance per ASTM C-672: 25 cycles:	0% Loss
Chloride content per ASTM D-1411:	<0.01%

\*Above results obtained using a water / powder ratio of 22.90% = 1.25 gallon water (5.00 quarts) per 45 lb. (20.45 kg) unit

**SURFACE PREPARATION: CONCRETE:** Existing concrete should be prepared by removing unsound areas with the use of high pressure water blasting, grinding, sandblasting or by use of chemical cleaning and etching. Remove all dirt, grease, oil and other contaminants that may come in contact with the patching material. For horizontal patching, a 3/4 inch minimum saw cut is recommended to insure adhesion. Always pre-wet the substrate to a saturated surface dry (SSD) condition with no standing water on the surface.

**MIXING:** Mix only as much material as can be placed in 5 to 7 minutes. Always add the powder to the water. Mix **SPECCRETE® Speed Repair** to a uniform, lump free consistency for a minimum of 60 seconds. A thick, creamy putty-like texture (zero slump) is considered ideal working consistency. **SPECCRETE® Speed Repair** can be mixed with a margin trowel for small repairs. For bag mixing, place



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approx. 1.25 gallons (5.00 quarts) of water in the mixing container and slowly add the 45 lb. of **SPECCRETE® Speed Repair** while continuously mixing with a mechanical low speed drill and paddle mixer. Larger quantities may be mixed in a mortar mixer if necessary to speed mixing process. Do not add previously mixed material to new batches, and do not re-temper or add additional water to previously mixed material to gain plasticity.

**APPLICATION:** Apply **SPECCRETE® Speed Repair** between 1/4 inch minimum to 2 inch maximum thickness. Always overfill the area to be patched. Force **SPECCRETE® Speed Repair** into the area to be patched by trowel and mold to the desired shape. Once initial set has occurred, shave the patch to the desired finish. Always shave towards the bond lines. Finish with a steel trowel. If applying in successive lifts, allow preceding lift to stiffen to a hardened consistency before applying fresh material. Set times will vary depending on temperature, humidity, and thickness. Clean tools with water immediately after use. Please contact Specco technical service for conditions not specified or application procedures not noted, at 800-441-6646.

**CURING:** Cure **SPECCRETE® Speed Repair** with damp cure method if any surface treatment is to be used, or with a quality cure and seal compound such as **Specco Envirocure 1315**. Curing should be considered mandatory, especially in hot, windy weather, direct sunlight and for thin patches.

**CAUTIONS:** When mixing the **SPECCRETE® Speed Repair**, the water to powder ratio is very critical, do not vary the specified water amount or over water. Minimum application thickness of **SPECCRETE® Speed Repair** is 3/4 inch (18 mm) for horizontal, and 1/4 inch (6 mm) for vertical or overhead. Do not feather edge. For feathered edge or very fine repairs, the use of **SPECCRETE® Thin Repair** is recommended. Maximum recommended application thickness in one lift is 2 inches (50 mm). Do not re-temper the mixed material. Do not overwork the completed surface. Protect from excessive sun, low humidity, rain, or wind exposure, as well as temperature extremes that could prevent inadequate curing. Do not apply **SPECCRETE® Speed Repair** if the temperature is expected to fall below 40° F (4° C) or rise above 90° F (32.2° C) within 24 hours of application. Do not apply to frozen or frost filled surfaces. Heating the patch area until warm, using warm water for mixing and insulating the patch after application will assist in reaching higher strength development. Do not use direct heat on the patch after its installation. Colder temperatures will extend open time and reduce rate of strength gain. Do not add calcium chloride or other accelerator type admixtures to **SPECCRETE® Speed Repair**. The use of **Specco SPECCRETE® G-30, SPECCRETE® Highway Repair 928, or SPECCRETE® Phast Patch** products are recommended for cold weather patching options

## GHS HAZARD RATINGS: DANGER:



**IRRITANT:**

**RESPIRATORY TRACT IRRITATION**



**HEALTH HAZARD:**

**KNOWN CARCINOGEN**



**HEALTH HAZARD:**

**CORROSIVE MATERIAL**

**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 S.D.S. (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:** 45 lb. (20.45 kg) bags

**STORAGE:** 40°F to 90°F in a dry, climate protected warehouse.



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**SHELF LIFE:** 1 year properly stored

**FREIGHT CLASS:** Item #42130, Sub 0, Freight Class 50 -Cement base patching 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.

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