



SPECCRETE® THIN REPAIR

POLYMER MODIFIED CONCRETE PATCHING & OVERLAY MORTAR

SPECCRETE® THIN REPAIR is a multi-purpose cement-based repair mortar for concrete and masonry that requires only the addition of potable water for mixing. **SPECCRETE® Thin Repair** contains fine aggregates for feather edging thin areas as well as polymer modification for improved bond strengths and weathering properties. **SPECCRETE® Thin Repair** is used primarily on sidewalks, driveways, or related flatwork surfaces for repairing spalls, bug-holes, small holes or voids, honeycombs, or general leveling or overlay requirements. **SPECCRETE® Thin Repair** is formulated to a light, concrete gray color.

BENEFITS:

- Feather edge-able up to 1 inch layers.
- Excellent trowelability and finishing properties with creamy finish.
- 28 day compressive strengths in excess of 6000 psi.
- Prolonged working and finishing times.

COMPOSITION: Proprietary blend of cement, water reducers, polymers, and selected fine aggregates for improved finishing and bond. 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 and 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):	30-40 minutes
Final set per ASTM C191:	60-80 minutes
Coverage per 50 lb. bag:	24 square feet at 1/4 inch thickness
Yield per 50 lb. bag:	0.50 cubic feet
Compressive Strength per ASTM C-109: 24 hour:	2650 psi
Compressive Strength per ASTM C-109: 7 day:	3850 psi
Compressive Strength per ASTM C-109: 28 day:	6050 psi
Tensile Strength per ASTM C-190: 7 day:	260 psi
Tensile Strength per ASTM C-190: 28 day:	420 psi
Slant Shear Bond Strength per ASTM C-882: 7 day:	3950 psi
Slant Shear Bond Strength per ASTM C-882: 28 day:	6680 psi
Flexural Strength per ASTM C-78: 7 day:	630 psi
Flexural Strength per ASTM C-78: 28 day:	730 psi
Shrinkage 50% RH per ASTM C-157: 7 day:	-0.082%
Shrinkage 50% RH per ASTM C-157: 28 day:	-0.120%
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 15.60% = 0.94 gallon water (3 .7 quarts) per 50 lb. (22.72 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 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 15-20 minutes. Always add the powder to the water. A thick creamy texture (1-2" slump) is considered ideal working consistency. Mix **SPECCRETE® Thin Repair** to a uniform, lump free consistency for a minimum of 3 minutes. **SPECCRETE® Thin Repair** can be mixed with a margin trowel for small repairs. For bag mixing, place approx. 0.94 gallons (3.7 quarts) of water in the mixing container and slowly add the 50 lb. of **SPECCRETE® Thin Repair** while continuously mixing with a mechanical low speed drill and paddle mixer. Adjust water to the desired consistency of the mortar, but do not exceed 1.17 gallon (4.7 quarts) per 50 lb. bag. 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® Thin Repair** between a feather edge minimum (1-2mm) to 1 inch (25mm) maximum thickness. For very thin vertical applications under 1/8 inch, the use of **SPECCRETE® Concrete Wipe** is suggested as an alternative option. For applications over 1 inch, the use of **SPECCRETE® Speccopatch RS** is recommended. Always overfill the section to be patched and force the **SPECCRETE® Thin Repair** into the area by trowel. Press the material firmly into place eliminating the chance of any air pockets. For surface leveling, use a screed before troweling. 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® Thin 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**. Do not use solvent based curing compounds. Curing should be considered mandatory, especially in hot, windy weather or direct sunlight.

CAUTIONS: There is no minimum application thickness as the **SPECCRETE® Thin Repair** is feather-edgeable, but thicker applications typically will weather and wear better than thin applications. Maximum recommended application thickness in one lift is 1 inch (25 mm). **When mixing the SPECCRETE® Thin Repair, the water to powder ratio is very critical, do not vary the specified water amount or over water.** 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® Thin 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. Colder temperatures will extend open time and reduce rate of strength gain. Do not add calcium chloride or other accelerator type admixtures to **SPECCRETE® Thin Repair**.

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.



601 NORTH 5TH AVE • KANKAKEE, IL • 60901
630-257-5060 SPECCO.com





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

PACKAGING: 50 lb. (22.70 kg) bags

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

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. No other representations or statements made by Specco 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. **Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages.** Specco explicitly excludes any written or oral statements or implied warranty on the performance of an applied/installed product manufactured or sold by Specco or through a Specco authorized distributor or reseller. Specco has no control over adherence to Specco's application standards, 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.*

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