

SPECCRETE® G-30 PATCHER FAST SETTING COLD WEATHER PATCHING REPAIR MORTAR

SPECCRETE® G-30 PATCHER is a cementitious, non-shrink, non-metallic rapid setting patching material that requires only the addition of potable water for mixing. **SPECCRETE® G-30 PATCHER** is a very versatile patching material which can be used for vertical or horizontal repairs including fills, patching, resurfacing and leveling in both interior and exterior applications such as ramps, docks, walkways, tunnels, piers, embankments, and related concrete structures.

BENEFITS:

- Formulated for fast strength gain and set.
- Ideal in cold weather conditions down to 30°F (-1.1°C)
- High compressive strength.
- Light gray end color.

COMPOSITION: Portland cement, selected aggregates, accelerators, and additives for improved tooling and workability

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 & PERFORMANCE PROPERTIES @ 70° F (21° C) (APPROXIMATE)	
Yield per 55 lb. Bag:	0.50 cubic feet
Coverage per 55 lb. Bag:	24 square feet at ¼ inch thickness
Initial Set per ASTM C-403:	6-8 Minutes
Final Set per ASTM C-403:	10-12 Minutes
Compressive Strength per ASTM C-109	Results
3 hours:	1250 psi (15.4 Mpa)
1 day:	2350 psi (28.9 Mpa)
7 days:	5250 psi (64.5 Mpa)
28 days:	7000 psi (86.1 Mpa)
Flow of Mortar at 5 minutes per ASTM C-109:	106 %
Slump per ASTM C-143:	3.0
Tensile Strength per ASTM C-190	Results
7 days:	357 psi (4.4 Mpa)
28 days:	630 psi (7.7 Mpa)
Scaling resistance per ASTM C-672:	Visual rating = 1 (25 cycles)
Freeze-thaw Durability Factor per ASTM C-666:	97.10 (300 cycles)

* All above test run at 13.65 % water to powder ratio (7.5 lbs. water / 55.0 lbs. G-30)

SURFACE PREPARATION: All repairs should be performed in accordance with information stated. 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, scabber or other mechanical means to obtain an exposed aggregate surface profile of + or – 1/16 inch of structurally sound 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: SPECCRETE® G-30 PATCHER will require **3.5 to 3.75 quarts of potable water per 55 # bag** to achieve proper mix consistency. Mix small quantities in a clean container with a hand trowel or in a wheelbarrow with a mud hoe. Use a rotary mixer with rubber tip blades for mixing large quantities. **DO NOT MIX MORE THAN TWO BAGS (110 lbs.)** at one time. For deep areas over 1.5", SPECCRETE® G-30 PATCHER may be extended with up to 20 lbs. of clean, washed, 3/8" pea gravel per 55 lb. bag. Do not mix more material than can be placed in ten minutes.

APPLICATION: When the temperature is above 33°F and rising, pre-wet the prepared area with potable water before applying SPECCRETE® G-30 PATCHER. Any excess water should be blown or swept away to prevent dilution of the material. The substrate should be saturated surface dry (SSD) with no standing water. Due to the fast setting times of SPECCRETE® G-30 PATCHER no bonding agent primers are recommended due to low reactivation time. However, a slurry coat is suggested for improved bond to the substrate. 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. Before the bond coat dries, work the material into the primed surface filling all voids. After the slurry coat is completed and dried, mix SPECCRETE® G-30 PATCHER to the correct consistency stated above and immediately place after mixing. Apply by trowel method taking care not to over trowel the fresh material. SPECCRETE® G-30 PATCHER may be applied up to 1.5" (38 mm) thickness on vertical surfaces and up to 0.75" (19mm) overhead in one lift. The minimum application thickness recommendation is approx. 3/8 inch (9.5mm). 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.

CURING: Properly cure SPECCRETE® G-30 PATCHER with water mist or *Envirocure 1315*. Protect the freshly placed SPECCRETE® G-30 PATCHER from traffic, rain, freezing and hot sun. SPECCRETE® G-30 PATCHER will support light foot traffic in four hours and vehicle traffic after setting overnight.

CAUTIONS: Do not mix more material than can be placed in ten minutes. Use only potable water for mixing. Do not re-temper. Do not apply to frozen or frost filled surfaces. Preheating the application substrate and pre-conditioning the mixing materials at warm temperatures will help speed set times in sub-freezing weather conditions. Do not apply SPECCRETE® G-30 PATCHER if the temperature is expected to fall below 20° F (-6.6° C) within 24 hours of application. Maximum application thickness in one lift is 1.5" (38mm) on vertical and 0.75" (19mm) overhead. If SPECCRETE® G-30 PATCHER 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 3/8 inch (9.5 mm).

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.

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

PACKAGING: 55lb. (25 kg) bags and pails

STORAGE: 40° to 90° F

SHELF LIFE: 1 year properly stored

FREIGHT CLASS: Item #42130, Sub 0, Freight Class 50- Cement based patching material in bags or pails

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