

SPECCRETE® PHAST PATCH 45

MAGNESIUM PHOSPHATE BASED, FAST SETTING PATCHING MORTAR

PRODUCT DESCRIPTION: Speccrete® Phast Patch 45 is a one-component concrete repair and anchoring material that may be used in sub-freezing temperatures down to 0°F (-17.7°C). Speccrete® Phast Patch 45's quick setting characteristics make it an ideal product for bridge deck and highway overlays, precast spalling repairs, parking deck and ramp repairs, and a variety of heavy industrial repairs where fast setting, high early-strength properties are required. Speccrete® Phast Patch 45 is formulated with no ammonium phosphates for odorless, fume-free indoor applications such as freezer repairs or warehouse floors.

BENEFITS: ODORLESS FORMULATION...MAY BE USED IN COLD FREEZING WEATHER... RAPID SETTING...EXCELLENT BOND STRENGTH TO CONCRETE...NON-SHRINKING... REQUIRES ONLY WATER FOR MIXING...NO PRIMER OR WET CURING REQUIRED...AVAILABLE IN WHITE OR MODIFIED CUSTOM COLORS

COMPOSITION: Magnesium phosphates with selected aggregates and accelerants

WORKING & PERFORMANCE PROPERTIES @ 70° F (21° C) (APPROXIMATE):	
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Yield per 50 lb. unit:	0.44 cubic feet
Coverage per 50 lb. unit:	22 square feet at ¼ inch thickness
Initial Set per ASTM C-403:	3-5 Minutes
Final Set per ASTM C-403:	6-8 Minutes

COMPRESSIVE STRENGTH PER ASTM C-109:	RESULTS:
1 hour:	2350 p.s.i.
3 hours:	3250 p.s.i.
1 day:	4130 p.s.i.
3 days:	4640 p.s.i.
28 days:	6050 p.s.i.

SLANT SHEAR BOND STRENGTH PER ASTM C-882:	RESULTS:
1 hour:	1320 p.s.i.
3 hours:	1675 p.s.i.
1 day:	2450 p.s.i.
3 days:	2870 p.s.i.
28 days:	3700 p.s.i.

FLEXURAL STRENGTH PER ASTM C-78:	RESULTS:
7 days:	730 p.s.i.

*All tests above were run at 10.0 % water to powder ratio (2.40 quarts / 5.00 lbs. water / 50.0 lbs. powder)

DIRECTIONS FOR USE: All areas to be patched shall be clean and free of oil, grease, dirt, deteriorated concrete and all contaminates. Areas to be patched must be a minimum of 1/2" deep. Speccrete® Phast Patch 45 will require 2.4 quarts of potable water per 50 lb. unit to achieve the proper mix consistency. Add the pre-measured amount of Speccrete® Phast Patch 45 to the proper amount of clean water and mix for less than two minutes. Mix small quantities of Speccrete® Phast Patch 45 in a clean container with a hand trowel. Use a slow-speed motor and paddle mixer or a rotary mixer with rubber tip blades for mixing larger quantities. Speccrete® Phast Patch 45 may be extended with clean, washed 3/8" pea gravel in the range of 13 to 26 pounds (1-2 gallons) per 50 lb. unit. If adding dry pea gravel, additional water should be added at a rate of 0.4 gallon per gallon of aggregate. If adding pre-wet or damp gravel, then no additional water should be added. Organization and timing are very important when mixing and placing Speccrete® Phast Patch 45.

DIRECTIONS FOR USE (CONTINUED): Add the designated amount of water into the mixer, then add Speccrete® Phast Patch 45 powder, quickly mix to a smooth consistency and then dump the material into place. Screed, trowel or broom finish quickly as Speccrete® Phast Patch 45 achieves initial set in 3-5 minutes. It is strongly advised to clean equipment and tools with water between batches. Organization and timing are very important when mixing and placing Speccrete® Phast Patch 45. The mixing time is short, usually less than two minutes.

CAUTIONS: Do not mix more material than can be placed in 6-8 minutes. Use only potable water for mixing. When mixing Speccrete® Phast Patch 45, the water-to-powder ratio is very critical, do not vary the specified water amount. Do not over water. Do not re-temper. Do not feather edge. Do not apply less than ½ inch or over 1 1/2 inch in thickness per lift. Clean mixing equipment between batches. Protect from excessive sun, low humidity, rain and wind exposure, as well as temperature extremes that could prevent inadequate curing. Do not use Speccrete® Phast Patch 45 for precision grouting or place against copper, aluminum or galvanized metal. Colder temperatures will extend open time and reduce rate of strength gain. Do not add calcium chloride, bonding agents, or other admixtures to Speccrete® Phast Patch 45. Use of any extension aggregates will alter physical properties. In sub-freezing weather conditions, do not apply Speccrete® Phast Patch 45 to frozen, frost filled surfaces. Use of any extension aggregates will alter physical properties as listed. DO NOT WET CURE.

WARNINGS: When using Phast Patch 45 indoors, provide adequate ventilation from dust. Contains cement and silica, avoid inhalation of dust. Wear gloves, safety goggles, and OSHA approved dust respirator during mixing and placement. 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.

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

PACKAGING: 50# (22.70 kg) bags or pails

STORAGE: Store in a dry protected area

SHELF LIFE: Bags -1 year properly stored / Pails- 2 years

FREIGHT CLASS DESCRIPTION: Item 42130, Sub 0, 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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