

# Hard Hat ConPatch 5

Fast setting polymer-modified concrete repair material

## DESCRIPTION

ConPatch 5 is a general purpose polymer-modified concrete repair mortar for concrete floors, walls, precast, tilt-up and masonry surfaces. ConPatch 5 can be used for horizontal and vertical applications to provide a durable repair that can be shaped by shaving or sanding.

## FEATURES/BENEFITS

- Can be featheredged
- Lifts up to 1" in thickness
- 5 minute set time for quick turn around
- Can be shaped
- Excellent durability and adhesion
- Dries to color of concrete

## APPLICATION

### Applications:

Interior & exterior  
Vertical, overhead & horizontal repairs  
Used at no slump consistency  
Outstanding repair material for concrete pipe, curbs, sidewalks, formed and precast concrete

**Surface Preparation:** The concrete must be sound and free of all foreign material, including oil, grease, dust, laitance or other surface contaminants. Saw cut the perimeter of the repair to a maximum depth of 1/2". Mechanically abrade the surface by an engineered approved method, such as grinding, abrasive blasting, or scarifying. All surfaces to be repaired should be in a saturated-surface-dry (SSD) condition with no standing water on the surface.

ConPatch 5 takes its initial set in 5 minutes.

**Mixing:** Mix 6.75 – 7.25 pints (depending on desired consistency) of clean water per 50 pound bag of material. Mix with a low speed drill. Add recommended amount of clean water into the container, followed by the ConPatch 5. Mix 2 to 3 minutes. Mix only what can

be applied within the setting period. ConPatch 5 may be used with SpecChem Acrylic Bonder neat or mixed 1 to 1 with water per 50 pounds of powder to increase durability, abrasion resistance and bond strength. The addition of Acrylic Bonder is recommended when using ConPatch 5 in thin, horizontal applications subjected to heavy traffic or wear.

**Bond/Scrub Coat:** Use the properly mixed ConPatch 5 as a bond or scrub coat by scrubbing a thin layer into the pre-dampened substrate with a stiff brush. Place the ConPatch 5 mortar immediately before the bond coat dries.

**Placement:** Trowel ConPatch 5 firmly into the prepared area, ensuring intimate contact with the bonding surface. Use slightly more material than is needed and roughly shape during placement. After the initial set, when ConPatch 5 is surface hard, shave the material to the desired final shape using a steel trowel. Maximum depth of neat repair mortar is 1" for each lift. Additional lifts can be placed after the original lift has achieved set. The original lift should be left with a rough surface to improve bond between lifts.

**Finishing/Curing:** Finish the repair material to the desired texture to match the surrounding concrete. ConPatch 5 is self-curing under most conditions. In severe drying conditions, use an ASTM C-309 compliant, water based curing compound.

Coverage: approx 20 sq-ft @ 1/4"

## PACKAGING

50 lb bag  
Coverage: approx 20 sq-ft @ 1/4"

## STORAGE/SHELF LIFE

Shelf life of unopened bags stored in a dry facility is 12 months. Excessive temperature differential and/or high humidity can shorten the shelf life expectancy. Store in a cool, dry area away from direct sunlight.

## TEST DATA

Set Time at 70°F (ASTM C-266)	
Initial Set	5 min
Final Set	8 min
Compressive Strength (ASTM C-109)	
1 day	3150 psi
7 days	5000 psi
28 days	6500 psi
Freeze-Thaw (ASTM C-672)	
Scaling Resistance	25 cycles = 0% loss
Flexural Strength (ASTM C-348)	
7 days	500 psi
28 days	650 psi
Yield	
Yield Per Bag	.43 cu-ft



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## LIMITATIONS/PRECAUTIONS

Minimum thickness for repair is 1/8" to achieve maximum durability in heavy wear applications. Do not retemper after initial mixing. Do not add other cements or additives to this product. ConPatch 5 is a fast setting product, so mixing equipment should be cleaned with water as soon as possible.

Do not allow repairs to freeze until the material has reached a minimum of 1000 psi compressive strength.

In adverse temperatures, follow ACI recommendations for hot/cold weather concreting practices.

Use only potable water for mixing.

Minimum surface and ambient temperature of 45F and rising is required at the time of application.

For optimum results, condition material to between 65F and 85F.

Caution: Contains Portland Cement and sand. Cement will cause irritation. Avoid contact. A dust respirator, safety goggles, and rubber gloves are recommended.

Avoid prolonged contact with clothing.

In case of contact with eyes, immediately flush with water for at least 15 minutes.

Get prompt medical attention. Do not wear contact lenses when working with this product. DO NOT take internally. Keep out of reach of children.

Avoid hazards by following all precautions found in the Material Safety Data Sheet (MSDS), product labels, and technical literature. Please read this information prior to using the product.

## WARRANTY

### NOTICE-READ CAREFULLY CONDITIONS OF SALE

The manufacturer offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of The manufacturer. No other representative of or for The manufacturer is authorized to grant any warranty or to waive limitation of liability set forth below.

### WARRANTY LIMITATION

The manufacturer warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, The manufacturer will replace the defective product with new product without charge to the purchaser. The manufacturer makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

### INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.



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