

# REPCON<sup>®</sup> H



Single-component polymer-modified concrete repair mortar with corrosion inhibitor

## DESCRIPTION

REPCON<sup>®</sup> H is a single-component, polymer-modified, fiber reinforced, concrete repair mortar with integral corrosion inhibitor for use in a variety of screed or trowel down horizontal repair applications. REPCON<sup>®</sup> H incorporates the latest in polymer technology offering superior durability, performance and ease of application in industrial, commercial and infrastructure applications.

## FEATURES/BENEFITS

- One-component, dry-polymer modified. Just add water.
- Fiber-reinforced for added strength
- Dry-polymer technology for excellent freeze-thaw durability
- Easy-to-apply flowable/pumpable consistency
- Natural concrete-gray color
- Can be used for a variety of horizontal concrete repairs and over lays
- Contains integral corrosion inhibitor

## SPECIFICATIONS/COMPLIANCE

ASTM C928 (Rapid-hardening Mortar)

## APPLICATION

**Surface Preparation:** The concrete must be sound and free of all foreign material, including oil, grease, dust, laitance or other surface contaminants. For maximum durability, saw cut the perimeter of the repair 1/8" deeper than the depth of the repair, creating a notched, reinforced edge. Mechanically abrade the surface by an engineered approved method in accordance with ICRI 310.2 Guideline to a minimum CSP 5. **All concrete surfaces to be repaired must be in a saturated-surface-damp (SSD) condition with no standing water on the surface.**

**Priming/Scrub Coat:** Thoroughly clean all exposed steel reinforcing of rust and coat with **SpecPrep SB**.

**Prepared concrete must be SSD** and primed with a spray or brush coat of **SpecPrep SB** and the repair mortar applied wet on wet or up to the recommended open time (see **SpecPrep SB** technical data sheet).

As an alternative, apply a scrub coat of the properly mixed repair mortar by scrubbing a thin layer into the pre-dampened substrate with a stiff brush. Place the repair mortar immediately before the bond coat dries.

**Mixing:** Add 4.5- 5.0 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 slowly adding the REPCON<sup>®</sup> H powder. Mix 3 minutes. Mix only what can be applied within the setting period. REPCON<sup>®</sup> H can be applied in applications from 1/4" to 2" in a lift.

## APPLICATION (con't)

**Deep Applications:** For repair applications over 2", REPCON<sup>®</sup> H should be extended with clean, SSD, 3/8" aggregate up to 60% by weight (30 lbs) and mix an additional 2 minutes. This extension will add approx 0.17 cu-ft to the unit yield and should be placed within 20-30 minutes. Extended mixes will depend on the gradation of the aggregate but normally will reduce compressive strength by 500 psi.

**Placement:** Trowel, or screed REPCON<sup>®</sup> H firmly into the prepared area, ensuring intimate contact with the bonding surface. Finish REPCON<sup>®</sup> H level with the surrounding concrete and allow to take an initial set. After the initial set, when REPCON<sup>®</sup> H is surface hard, finish by hand trowelling.

**Finishing/Curing:** Finish the repair material to the desired texture to best match the surrounding concrete. Do not add additional water to the surface during finishing. Lightly spray SpecFilm as a finishing aid on this and any other polymer modified mortars to assist in finishing. REPCON<sup>®</sup> H is self-curing under most conditions. In severe drying conditions, use an ASTM C309 compliant, water based SpecChem curing compound.

## TYPICAL TEST DATA

Set Time at 70°F (ASTM C266)	
Initial Set	50 min
Final Set	75 min
Compressive Strength (ASTM C109)	
1 day	4250 psi
7 days	6000 psi
28 days	9000 psi
Bond Strength (ASTM C882 modified)	
7 days	2895 psi
Flexural Strength (ASTM C348)	
7 days	650 psi
28 days	1200 psi
Yield	
Yield Per Bag	.43 cu-ft



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## PACKAGING

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

## CLEAN UP

Tools and equipment may be cleaned with water before REPCON® H hardens.

## 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.

## LIMITATIONS/PRECAUTIONS

Minimum thickness for horizontal repairs subjected to heavy or severe traffic is 1/2". Do not retemper after initial mixing. Do not add other cements or additives to this product. REPCON® H 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 45°F and rising is required at the time of application.

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

**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 Safety Data Sheet (SDS), product labels, and technical literature. Please read this information prior to using the product.

## WARRANTY

### NOTICE-READ CAREFULLY CONDITIONS OF SALE

SpecChem 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 SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

### WARRANTY LIMITATION

SpecChem 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, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem 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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