

# REPCON SM



Single component polymer-modified concrete **Screed Mortar**

## DESCRIPTION

RepCon SM is a single component, polymer modified, fiber reinforced, concrete repair mortar for use in trowel and screed applied horizontal repair applications. Rep-Con SM 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 consistency
- Natural concrete-gray color
- Formulated for horizontal application
- Takes light foot traffic in 6 hours

## SPECIFICATIONS/COMPLIANCE

ASTM C-928 (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. Saw cut the perimeter of the repair 1/8" deeper than the depth of the repair, creating a notched, reinforced edge for maximum durability. Best results will be obtained by abrasive blasting the area to be repaired, providing a uniform depth, a high surface profile and a firm bonding area. All surfaces to be repaired should be in a saturated-surface-dry (SSD) condition with no standing water on the surface.

### Mixing

**Mix 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 SM powder. Mix 2-3 minutes. Mix only what can be applied within the setting period. RepCon SM can be applied in applications from 1/4" to 2" in a lift.

**Deep Applications:** For repair applications over 2", Rep-Con SM should be extended with clean, SSD, 3/8" aggregate up to 50% by weight (25lbs) and mix an additional 2 minutes. This extension will add approx 0.15 cu-ft to the unit yield and should be placed within 15-20 minutes.

### Bond/Scrub Coat

Use the properly mixed RepCon SM as a bond or scrub coat by scrubbing a thin layer into the pre-dampened substrate with a stiff brush. Place the RepCon SM mortar immediately before the bond coat dries.

### Placement

Trowel, or screed RepCon SM firmly into the prepared area, ensuring intimate contact with the bonding surface. Finish RepCon SM level with the surrounding concrete and allow to take an initial set. After the initial set, when RepCon SM 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 SM is self-curing under most conditions. In severe drying conditions, use an ASTM C-309 compliant, water based Spec-Chem curing compound.

## PACKAGING

50 lb bag

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

## TYPICAL TEST DATA

Set Time at 70°F (ASTM C-266)	
Initial Set	60 min
Final Set	90 min
Compressive Strength (ASTM C-109)	
1 day	2500 psi
7 days	5000 psi
28 days	7500 psi
Bond Strength (ASTM C-882 modified)	
14 days	1600 psi
Flexural Strength (ASTM C-348)	
7 days	650 psi
28 days	1200 psi
Yield	
Yield Per Bag	.43 cu-ft

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## CLEAN UP

Tools and equipment may be cleaned with water before RepCon SM 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 traffic is 1/4". Do not retemper after initial mixing. **Do not add other cements or additives to this product.** Rep-Con SM 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 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

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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