

SPEC CRETE PLUS

Single-component pre-extended concrete repair with corrosion inhibitor

DESCRIPTION

SPEC CRETE PLUS is a single-component, pre-extended concrete repair concrete with integral corrosion inhibitor, specially designed for deep repairs in horizontal or form and pour applications. SPEC CRETE PLUS is a cost-effective, durable concrete repair which can be pumped into hard to access areas such as industrial plants, bridges, parking facilities, balconies, etc... SPEC CRETE PLUS offers superior durability, performance and ease of application in industrial, commercial and infrastructure applications.

FEATURES/BENEFITS

- One-component, pre-extended rapid-setting concrete repair. Just add water.
- New technology for easy placement and pumpability
- Long working time (20-30 minutes)
- High-strength repair
- Easy-to-apply flowable consistency (6" slump)
- Natural concrete-gray color
- Formulated for deep horizontal and form and pour applications
- Accepts normal traffic in 1 day
- Contains integral corrosion inhibitor

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 approximately 4.0 pints (depending on desired consistency) of clean water per 50 pound bag of material. Mix single units with a low speed drill. Add recommended amount of clean water into the container, followed by slowly adding the SPEC CRETE PLUS powder. Mix 2-3 minutes. Mix only what can be applied within the setting period. SPEC CRETE PLUS can be applied in applications from 1" to 8". Please contact SpecChem for applications greater than 8".

For large applications or for mixing multiple bags use a mortar mixer. Add approx 80% of the water to the mixer 1st, then add the required number of SPEC CRETE PLUS bags. Then add the remaining water and mix 3 minutes to the desired consistency.

Placement

Trowel, or screed SPEC CRETE PLUS firmly into the prepared area, ensuring intimate contact with the bonding surface. Finish SPEC CRETE PLUS level with the surrounding concrete and allow to take an initial set. After the initial set, when SPEC CRETE PLUS 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. SPEC CRETE PLUS is self-curing under most conditions. In severe drying conditions, use an ASTM C309 compliant, water

PACKAGING/YIELD

Available in 50 lb, 80 lb bags and 3000lb super sacks
50 lb bag yields approx .41 cu-ft
80 lb bag yields approx .63 cu-ft (mixed with 6.5 pints)

CLEAN UP

Tools and equipment may be cleaned with water before SPEC CRETE PLUS hardens.

TYPICAL TEST DATA

Set Time at 70°F (ASTM C266)	
Initial Set	40 min
Final Set	80 min
Compressive Strength (ASTM C109)	
3 day	3000 psi
7 days	4000 psi
28 days	6000 psi
Slant Shear Bond Strength (ASTM C882)	
28 day	1580 psi
Air Content	6%

SPEC CHEM
Solution to Service

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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 using SPEC-CRETE PLUS is 1". Do not retemper after initial mixing. **Do not add other cements or additives to this product.** SPEC-CRETE PLUS 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.

DO NOT EXPOSE TO OR APPLY NEAR FIRE OR FLAMES. FOR WELL VENTILATED OR EXTERIOR USE ONLY!

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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