Concrete Surface Repair Program

Step-by-Step Instructions for repairing old or damaged concrete

HOW TO REPAIR & RESTORE SPALLING CONCRETE

Repair & restore old, spalling concrete in one weekend with TCC Materials' Concrete Surface Repair Program. Follow our three easy steps to prepare, underlay, and resurface your concrete to give it a fresh, clean look. Follow up with our fourth step to seal and protect your newly restored concrete to protect it from any future issues.

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Step-by-Step Instructions for repairing old or damaged concrete

1. PREPARE

PROPER PREPARATION IS CRUCIAL FOR SUCCESSFUL RESULTS. Remove all loose or unsound materials. Thoroughly clean surface of dirt, dust, grease, waxes, sealers, old adhesive residue, curing compounds, oil, or other contaminants before patching, topping, or placing overlays by power washing with a 3,000 psi minimum washer. Concrete must be at least 28 days old and free of efflorescence and any standing water. Smooth-troweled or dense concrete surfaces must be etched to ensure proper bond adhesion. DAMP-SATURATE SURFACE JUST BEFORE APPLYING PRODUCT (NO STANDING WATER).

2. PATCH

A. If necessary, use **Akona Rapid Patch™** to repair blemishes or cracks over ½" deep prior to proceeding to Step 2. Allow to cure until it is "walk-hard" (approx. 1-2 hours) before proceeding to applying the Akonakote Pourable Concrete Patch in Step 2-B. *(See Example1)*

Example 1: Repair deeper blemishes with Rapid Patch™

B. Use **Akonakote™ Pourable Concrete Patch** to level and smooth rough or uneven concrete. Mix one bag at a time using a ½" drill rated at 300-450 rpm with a square mortar paddle attachment. Add 3 quarts of clean water to an empty 5-gallon bucket. While mixing, slowly add contents of bag to water. Mix until a smooth, lump-free consistency is achieved.

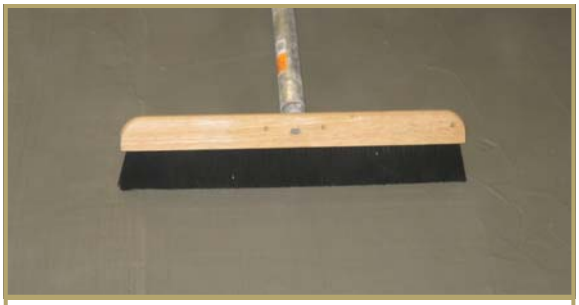
Example 2: Apply Akonakote™ using a stiff-edge blade

After mixing product, pre-dampen the surface with water just prior to application. Use a trowel or stand-up stiff-edge blade to apply to desired area. (*See Example 2*) Protect surface until material is completely hard (approx. 6 hours.) Allow 24 hours to cure before proceeding to Step 3.

3. RESURFACE

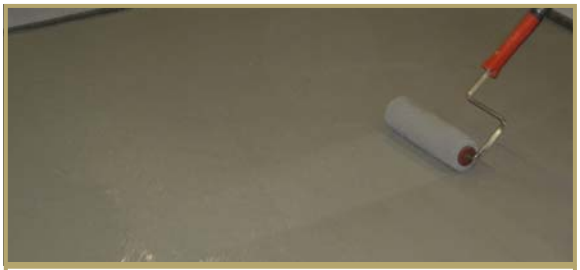
Use **Akona Polymer-Modified Concrete Resurfacer** to achieve the final resurfaced appearance including trowel or broom finishing, if desired. *(See Example 3)* Add approximately 1½ pints of clean water (per 10 lbs. of product) to a clean bucket. Add product to water and mix until a stiff, pourable consistency is achieved. Apply within 20 minutes of mixing.

After mixing product, pre-dampen the surface with water just prior to application. Apply to a thickness of 1/8" to 3/16" with a trowel. Wetting the trowel will aid in application to larger areas. Allow to set for a minimum of 4 hours before exposure to rain and 12 hours before exposure to traffic. Allow 7 days before proceeding to Step 4.



Example 3: Apply an optional broom finish

4. SEAL



Example 4: Apply sealer using a roller

Use a **waterborne siloxane sealer** to protect the surface against future damaging effects which can be caused by water intrusion, acid rain, chemicals, deicing chemicals, freeze/thaw exposure, airborne dirt smog, industrial fumes, and other atmospheric chemicals. Use as packaged, do not dilute or mix.

Apply to surface with a roller or sprayer in a uniform manner when temperatures are above 40°F. *(See Example 4)* Completely wet the substrate with a minimum of two-inch rundown. Allow 1-2 hour to cure completely before exposing to foot traffic.

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