



## A-17,000 Crack Repair Procedure

### Description

**Americrete's Crack Repair Procedure** is a flexible product designed to fill cracks and joints prior to resurfacing with **Americrete's Concrete Resurfacer**. This procedure is a quick and efficient remedy for crack repairs.

### General Information

Structural cracks are caused by many factors, including sub grade problems, insufficient expansion joints, tree roots, insufficient steel reinforcement, or insufficient concrete thickness or strength for the intended use. No crack repair system is 100% effective and structural cracks may re-appear. Pre-stressed concrete uses cables to keep cracking to a minimum, but post tension slabs may still crack.

### Surface Preparation

#### New Floors

Any new concrete shall be allowed to cure for 28 days. If using **Americrete Concrete Prep & Seal A-200** as the curing agent – a minimum of 72 hours must be allowed before coating. New concrete that is treated with **Concrete Prep & Seal** must cure for 72 hours. Pressure-wash the surface with a 3000 P.S.I. pressure washer in order to remove any residue or alkali build up prior to the application of **Americrete**. Note: If efflorescence is present, remove with water and allow to dry for 24 hours. If efflorescence continues, repeat this step. Continue only if no efflorescence is present.

#### Surface Preparation of Existing Coated Floors

Remove all existing coatings, sealers, curing agents and other foreign materials by shot blast or grinding equipment in order to reveal porous concrete. Remove the contaminated materials and dispose in an approved disposal site.

#### Surface Cleaning

Clean and etch the floor with **Americrete Degreaser A-100** to remove dirt, grease and oil from the surface. Apply with a stiff broom and agitate on concrete. Let set for 30 minutes then rinse with water.

#### Surface Stabilization (with Americrete Concrete Prep & Seal)

Apply two applications of **Americrete Concrete Prep & Seal A-200** penetrating

sealer to increase concrete strength and reduce vapor transmission. Apply 2 applications of **Concrete Prep & Seal** over the entire surface using a low-pressure sprayer. Saturate the surface – spraying evenly – but do not allow the material to puddle. Wait 24 hours before applying any **Americrete** cementitious coating. Note: If efflorescence is present, remove with water and allow to dry for 24 hours. If efflorescence continues, repeat this step. Continue only if efflorescence is not present.

### Crack Repair

Cracks should be V-grind, clean and free of any debris or other fillers prior to the application of **Americrete**. Cracks are to be primed with **Americrete Concrete Bonder Admix A-300**. Cracks should be filled with **Americrete Waterproof Basecoat A-900** mixed with **Americrete Bonder Concentrate A-400** mixing ratio will be one to one (one bag to one gallon) additional water can be added to achieve desired consistency. Structural or moving cracks should be covered with the additional **Americrete Flex Mesh A-1600**. After the crack has been repaired and dry, apply **Americrete Flex Mesh A-1600** and **Americrete Concrete Resurfacer A-600** over the crack, and allow it to dry, or use **Americrete's Crack Repair Kit A-1700** and follow the directions.

### Installation Procedures For Crack Repair Kit

1. V-grind out all cracks that are to be repaired with a crack chaser or "V" Blade.
2. Remove all dust, loose cement, dirt, etc from the area to be repaired. It is important that you have a clean surface to work with.
3. Prime the surface with white liquid in the container **Concrete Bonder Admix A-300** with a brush.
4. Mix 1 quart of **Concrete Bonder Concentrate A-400** with the material in the bottom of a bucket (in hotter climates, an extra ½ quart of water may be necessary), pour the material into the opened cracks and trowel smooth. **Note: Allow the material to dry completely before proceeding.**
5. Add 1- 1 1/2 quarts water to material in small bucket. Pour and trowel the material over the crack 7" wide, and embed (trowel) the **Americrete Flex Mesh A-1600** completely, and feather the edges with water and a brush. Allow it to dry and proceed with coating the surface.

### Product Warranty:

Americrete, Inc. blends its products to the highest quality. Warranty does not apply to any persons, company or private individuals who have not attended an Americrete, Inc. training class and/or have not been approved as a Certified Applicator of Americrete, Inc. products. This warranty is limited to the replacement of material (product) for a period of 1 year for single product application and for a period of 5 years for entire system application only if the maintenance has been performed as stated above and the product(s) have been proven to be defective. Product must be applied to manufacturers specifications,

and over a sound substrate. There is no warranty for cracking, damage to substrates or replacement of any tangible items. This warranty, dated October 2004, supercedes all previous warranties.

***Note: Americrete products are to be applied only when surface temperatures are at 55 degrees or higher. Do not apply when rain or other precipitation is expected within 24 hours.***