

Architectural Cast Stone, LLC.  
2775 Norton Creek Drive  
West Chicago, IL 60185  
Phone : 630-377-4800

### **PATCHING & CLEANING INSTRUCTIONS**

Always wear approved personal protective equipment for SAFETY (i.e., Face Shield, Glasses, Gloves, Etc.)

Following is the Patch Procedure:

\*\*Minimum temperature of sustained 50 degree "F" is required for 24 hours before and after any patching.

1. Clean area to be patched by removing all loose concrete.
2. Moisten area with clean potable water. Keep area saturated for at least ½ hour.
3. Apply a "Light Coat" of bonding agent provided in sealed bottle to the area to be patched until it feels 'tacky'.
4. Following "Blending Instructions", mix appropriate amount of mix that can be used in about ½ hour.
5. Apply patch mix to area and trowel smooth. The patch should be applied with a 2" trowel and packed in with the butt of the trowel. Leave troweled surface slightly raised (thickness of a piece of paper) to allow for sanding and finishing later.
6. For edges or bottom of sills, support the edge with some lathing or duck tape.
7. Cover patch, let set for 12 -24 hours, just long enough for patch to set, but not fully cure.
8. Using 80-120 grit sandpaper or emery cloth, prepare surface by sanding edges of the patch. Using a sanding block will yield better results. Emery cloth and wet sanding works best.
9. Thoroughly rinse well with water after sanding.
10. Clean area using the "Cleaning Procedure" below.
11. Allow to cure for an additional 24-48 hours.

Following is the Cleaning Procedure:

1. Using a stiff scraper, remove all large pieces of foreign material. Do not gouge the precast.
2. Using 80-120 grit sandpaper or emery cloth, lightly sand areas to remove any surface discoloration.
3. Brush all dust from the area to be washed.
4. To remove remainder of dust and add texture use muriatic acid. (Available at hardware stores.)
  - 4A. Wet entire surface that acid may come in contact, with clean potable water.
  - 4B. Using a soft bristle brush, paint on the acid being careful not to let the acid run down the face of the product. **Note:** Ratio of acid to water is = to 1 part acid / 4 parts water.

**DO NOT LET ACID SIT!** *Immediately rinse any excess from surrounding areas.*

- 4C. A stiff scrub brush may be necessary on some deep stains - **not stronger acid.**
  - 4D. Sponge off acid and rinse with clear water. A stiff brushing with clear water may be necessary. Run clear water over area.
5. Let dry and check to be sure you have not etched the surface too deep.

**Note:** It is better to wash lightly several times than ruin the surface with a too heavy or too long acid wash.

Architectural Cast Stone, LLC.  
2775 Norton Creek Drive  
West Chicago, IL 60185  
Phone : 630-377-4800

Following is the Blending Procedure:

Patch mix ratios are based on the particular mix design assigned to your product. These instructions are the 1<sup>st</sup> step to formulate the look needed to match the precast concrete we have provided. Usually, you will need to modify the sand mix slightly to get a more exact match.

Basic "SAND BASED" mix ratio:                    1 part cement mix                    1 ½ parts sand mix

Basic "SILICA SAND BASED" mix ratio: 1 part cement mix                    1 part silica sand mix

**YOUR MIX DESIGN IS \_\_\_\_\_ BASED.**

Blend the dry ingredients first, then add clean potable or included bonding agent/water mixture provided with kit to make a heavy mortar like consistency.

A test patch should be performed before the actual application to your product. This will provide a guideline for any adjustment. We find that typically, you will meet the desired look by adjusting the sand **mix +/-** to achieve the exposure required.

NOTE: *If too much water is used, any color in the mix will be diluted. Measure your water on the test patch and adjust as necessary for color match.*

Shelf life is indefinite, as long as the ingredients are maintained in separate air tight containers.

After product is dry, a quality sealer may be applied. The finish will be affected by the type of sealer chosen.

If you should need further guidance or questions, please feel free to call.