

## Procedural Bulletin

No. 29 Effective Date January 2020

# Gill 29 Gill Crete

**Purpose:** This Procedural Bulletin No. 29 is the guideline for mixing Gill 29 and Gill 33® for horizontal and vertical patches regardless of width, depth or length. All references to Gill 33® also include the MCI® variant.

### Materials:

- Gill 29 Gill Crete
- Gill 33® Superbond
- Water - Use potable water, do not use industrial water.

### Procedure:

**Surface Preparation:** Clean all loose material from the problem area by sand blasting, water blasting, scarifying, or use a power tool such as a jackhammer.

**Pre-soak:** Area to be overlaid / patched must be pre-soaked using water. Follow ACI recommended procedure of "24 hour" pre-soak. Deviation from ACI recommendation may result in bond failure.

**Pre-mix:** *Each Gill container should be thoroughly shaken to ensure the micro-silica is fully dispersed in solution and does not adhere to the bottom of the container.* In a separate container, mix a solution of one (1) part Gill 33® to five (5) parts water. This Gill Water solution is to be used for all mixing water in the concrete. Use the above ratio to achieve desired consistency per 80-pound bag.

**Bond Coat:** Mix together enough Gill 29 Gill Crete with the Gill Water to bring it to a latex consistency. Mix enough to cover the area to be patched or overlaid. Using a stiff bristle brush or stiff floor broom, scrub thoroughly into concrete. When completed, this bond should have the consistency of thick latex paint. During this procedure, you may have to add more water and / or Gill Crete to achieve optimum results. **Do not allow to dry!** For concrete subject to contamination, use Gill 17 Gill Lock. See Technical Bulletin No. 17 for additional information.

**Placement:** Mix together the 80-pound bag of Gill 29 with the above ratio of Gill Water mixing solution as needed to bring to a workable consistency and trowel into the area to be repaired. Use pressure to fill all air holes and gaps. This will net approximately .68 cubic feet of material.

**Curing:** Finish surface to match the area being patched and immediately cover using plastic, burlap, or other membrane sealing system such as Gill 86 Gill Cure. See Technical Bulletin No. 86 for additional information. This must remain for 4 hours. Failure to cure properly may result in plastic shrinkage cracks, slab curl and / or improper bond.

**Equipment Cleanup:** Gill 29 and 33® will not damage mixers or hand tools. To neutralize the effects of Gill 33®, rinse all tools with water.