

Procedural Bulletin

No. 33RK Effective Date January 2020

Gill 33[®] Superbond Repair Kit

Purpose:

This Procedural Bulletin is the guideline for mixing the Gill 33 Repair Kit for horizontal and vertical patches regardless of width, depth, or length. All references to Gill 33[®] also include the MCI[®] variant.

Surface Preparation:

Clean all loose material from the problem area by sand blasting, water blasting, scarifying, or by using a power tool such as a jackhammer.

Pre-Soak:

Pre-soak is only recommended for areas to be overlaid/patched. Follow ACI recommended procedure of "24 hour" pre-soak. Deviation from standards may result in bond failure. For full depth pours no soak is needed.

Pre-Mix Gill Water:

Prior to mixing Gill 33[®] with water, each quart container of Gill 33[®] must be thoroughly shaken to ensure the micro-silica is fully dispersed and that none of the additive is adhering to the bottom or sides of container.

In a separate 5 gallon bucket, mix a solution of one (1) part Gill 33[®] to five (5) parts water. This is referred to as Gill Water. This Gill Water solution is to be used for all mixing water in the concrete. Use this above 1:5 ratio to achieve the desired consistency per 50 lb. bucket of Gill 33[®] Repair Kit.

Bond Coat:

This step is recommended for areas to be overlaid/patched. This step is not needed for full depth pours.

In a clean container mix enough Gill Crete with the Gill Water to bring it to a latex consistency. Mix enough to cover the area to be overlaid/patched. Using a stiff bristle brush or stiff floor broom, thoroughly scrub into concrete. When completed, this bond should have the consistency of thick latex paint. During this step, you may add more Gill Water or Gill Crete to achieve optimum result. Do not allow to dry.

For concrete subject to contamination, use Gill 17. Contact your Gill Representative with any questions.

Placement:

Mix together the Gill Crete and Gill Water 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 approximately net .68 cubic feet of material.

Curing:

Finish surface to match area being patched and immediately cover using plastic or other membrane sealing surface such as Gill 86. This must remain on surface four (4) hours. Failure to cure properly may result in plastic shrinkage cracks, slab curl and/or improper bond.

Safety Precautions: See Manufacturer's Safety Data Sheet.

Materials Needed:

- Gill 33[®] Repair Kit
- Potable Water
- Several mixing containers
- Stiff bristle brush
- Various hand tools

Equipment:

Gill 33[®] Repair Kit may be mixed in the bucket it comes in or other preferred method of mixing, i.e., portable mixers, etc. It will NOT damage mixers or hand tools. To neutralize the

Please contact a Gill Representative for your specific applications.

Gill 33[®] is a registered trademark of Gill Industries, Inc., Lancaster, SC.
MCI[®] is a registered trademark of the Cortec Corporation, St. Paul, MN.

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