

Technical Bulletin #25-A Key Epoxy Terrazzo Requirements for Installing Over Existing Cement Terrazzo

I. GENERAL INFORMATION

It is possible to overlay an existing well adhered cement terrazzo floor with Key Epoxy Terrazzo. Communicate to the facility owner that you can guarantee the bond of the new terrazzo to the old terrazzo, but you cannot guarantee the bond of the existing terrazzo to the substrate. Specific considerations have been outlined below. Be aware that these recommendations are considered by Key Resin to be “industry best practice” but cannot be guaranteed to eliminate all risk of future telegraphing cracks.

II. SURFACE PREPARATION AND INSTALLATION GUIDELINES

1. Remove any wax and/or surface contamination.
2. Test for moisture. Excess moisture will require a Key Resin moisture mitigation system.
3. Perform adhesion testing or “sound” existing cement terrazzo floor to identify any poorly adhered or delaminated areas.
4. Any delaminated areas should be removed and patched with epoxy fill. Allow to cure.
5. Mechanically abrade surface to impart a uniform surface profile of CSP-3 or greater, shot-blasting is the preferred method. Grinding with coarse grit diamonds may also be effective, confirm with Key Resin Technical Service.
6. Exposed joints in the existing cement terrazzo comprised of double divider strips and joint filler should be revealed through the new epoxy terrazzo. Exception: If it can be confirmed that a cement terrazzo joint is honoring a control joint (sawcut) in the concrete slab, these joints can be covered with epoxy terrazzo using the following procedure: Remove cement terrazzo joint filler and fill joint with rigid epoxy, such as Key #502, Key #108, or Key #730. If moisture mitigation system is required, fill joint with moisture mitigation resin as recommended by Key Resin Technical Service.
7. If moisture mitigation system is required: Apply as recommended by Key Resin Technical Service.
8. Apply Key #580 Flexible Membrane along length of filled control joints, 32-40 mils thick (40-50 ft² per gallon) and minimum 24” width. Allow to cure. Reinforce surface of membrane with 38” width fiberglass scrim cloth, overlapping the termination edges of the membrane, using Key #502 to adhere and saturate scrim cloth. Key #580 may be applied over the entire existing terrazzo floor in lieu of “band-aid” treatments, particularly if joints, strips and cracks are numerous. Isolation joints (expansion joints) must be revealed through the new epoxy terrazzo topping and filled with flexible urethane joint filler (supplied by others).
9. Divider strips: Treat all single strips in existing cement terrazzo with Key #580 as outlined in step #8, except first prime over all strips with Key #502. Priming is done to ensure any gaps that may have opened between the strip and cement terrazzo topping are filled with epoxy. If the cement terrazzo has numerous small panels, apply primer, membrane and scrim over entire floor.

KEY RESIN COMPANY TECHNICAL BULLETIN



10. Cracks: Route and fill with Key #502 or Key #730 and treat with Key #580 as outlined in step #8. If moisture mitigation system is required, fill cracks with moisture mitigation resin as recommended by KeyResin Technical Service.
11. Follow all mixing, application, and curing instructions for the new Key Epoxy Terrazzo system.

REV 08/30/21 v1.0

CORPORATE - 888.943.4532
4050 Clough Woods Drive, Batavia, OH 45103

WESTERN US – 602.523.9353
4330 N 43rd Ave, Suite B-4, Phoenix, AZ 85031