

Technical Bulletin #6-C Joint Treatments

Filling and Covering Joints in Concrete Slabs

(Supersedes Content in Technical Bulletin #6)

Joint Treatment Procedure

Control joints (i.e., contraction joints, saw cuts) that are to be overlaid with a Key Resin Flooring System (minimum 1/8" thickness) should be filled with rigid epoxy such as Key #715 (gel), Key #730 (gel), Key #502, Key #515, or other resin approved by Key Resin. Do not fill joint with Key Joint Filler #780 or Flowcrete Flowflex UVR unless exposing the joint—to reduce risk of future concrete movement causing the joint to compress and create a raised hump or “mole trail”.

Apply Key #580 Flexible Epoxy Membrane across the previously filled joint and a minimum 12 inches on both sides of the joint at a spread rate of 40-50 square feet per gallon to achieve 32-40 mils dry film thickness. Optional membrane reinforcement: Apply fiberglass scrim cloth to the surface of the *cured* Key #580 using Key #502 Epoxy Primer to adhere and saturate the cloth. Scrim cloth may also be carefully placed on surface of wet/tacky Key #580, being careful not to press cloth too far into resin. Allow to cure prior to placement of resin floor system.

Important Precaution: This procedure is considered “industry best practice” and has been used successfully on numerous projects for many years. However, this procedure is not guaranteed to completely eliminate the potential risk of excessive future expansion/contraction joint movement causing a telegraphing stress line, raised hump, or hairline crack in the Key Resin Flooring System. A future repair may be necessary. ***If this risk is not acceptable to the owner, it is recommended to expose all control joints through the Key Resin Flooring System using double divider strips terminating on the joint edges and filling the joint with Key Joint Filler #780, Flowcrete Flowflex UVR, or other approved joint filler material. Do not use prefabricated double divider strips filled with neoprene.***

Expansion Joints (Isolation Joints)

Expansion joints must always be exposed through the Key Resin Flooring System due to much higher movement potential as compared to control joints. Expansion joints should be filled with flexible urethane or polysulfide sealant (supplied by other manufacturers).

Cold Joints (Construction Joints)

Cold joints may have variable horizontal or vertical movement potential depending on whether the two slabs are doveled together. Cold joints with minimal movement potential can be successfully treated with Key #580 as outlined above, with or without reinforcement. However, the same precaution for covered control joints also applies to covered cold joints.

REV 08/30/21 v1.0