Epoxy Injection Can't Stand Up Against

PermeJect[tm] Vacuum Permeation Injection Process

A method for filling singular and distinct cracks in a member or structure.

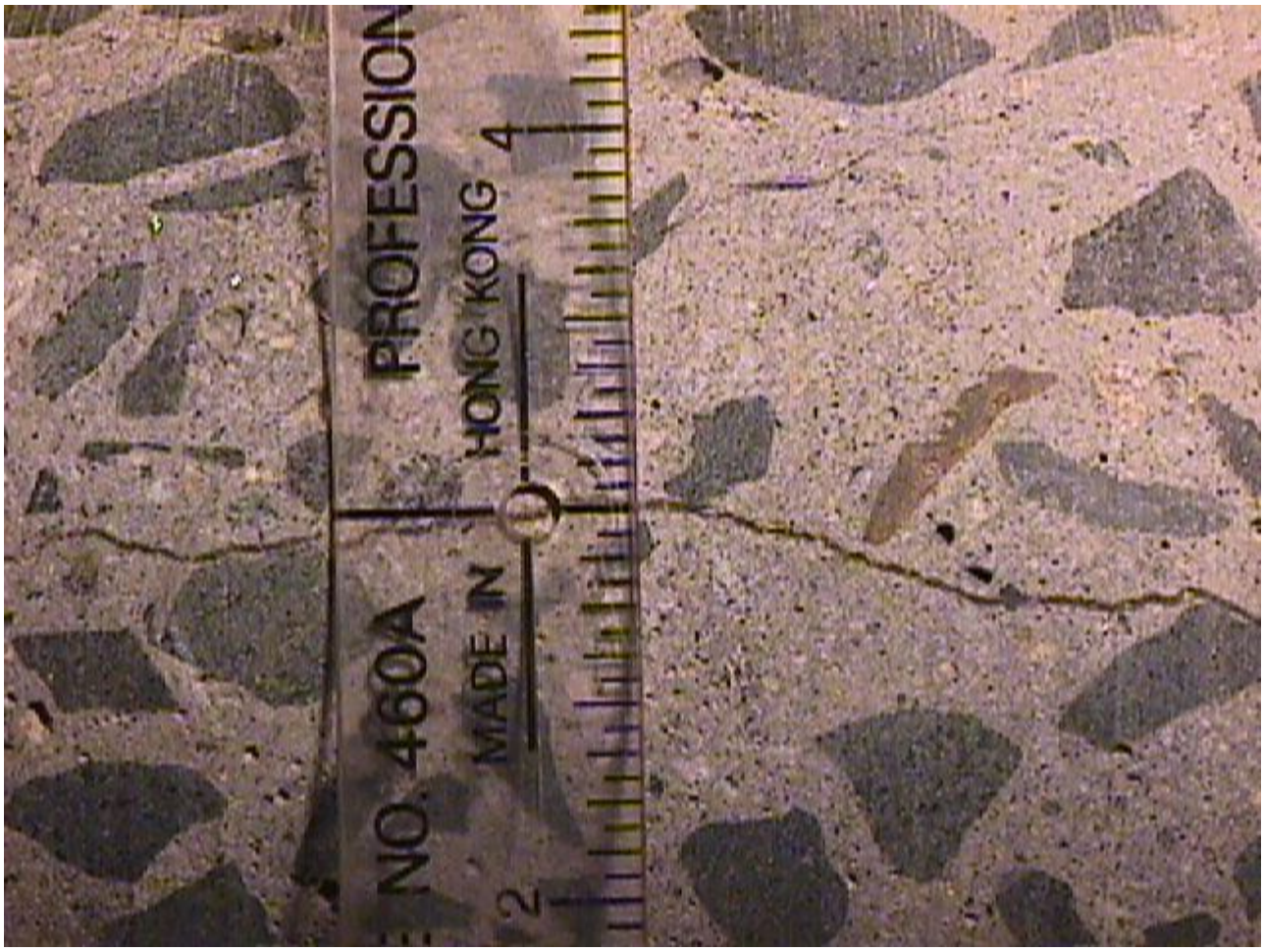
Before you even think about concrete, masonry or stone tearouts…consider this…

TECVAC'S[tm] PROPRIETARY INJECTION PERMEATION PROCESSES OFTEN MAKES THIS ACTION UNNECESSARY.

On the surface, most conventional repair methods appear to work just fine. They may also appear to perform fairly well below the surface as well, but only to a certain depth and fineness of crack.. TecVac[tm] offers a proven process that repairs and restores concrete, masonry and stone more completely, more economically and permanently.

Analytical studies and test results have found that pressure injection will fill only 70% of voids in dead end cracks at 30psi and, only 85% of voids at 105psi. Once the fracture fracture is mounted with the PermeJect[tm] Process, all interconnecting cracks and voids will be filled. This method has pulled repair materials accross damaged pier caps that were 14' thick. PermeJect[tm]gets repair materials DEEP!

The PermeJect[tm] method of injecting repair materials has been petrographically proven to penetrate into the finest widths of cracks, down to 5 microns...and there are a number of other advantages.



Penetration at 12"(305mm) deep

Consider the limiting qualities of most conventional pressure injection repairs. For closely aligned cracks, map pattern cracking and generally porous and unsound surface conditions, pressure injection methods are severely wanting:

Little to no access to fine cracks below 0.004"

Low level fill from compression pockets.

Poor cure of resins from entrapped moisture.

Internal damage from pressure build-ups.

The PermeJect[tm] Injection Permeation Process not only eliminates these inherent problems, PermeJect[tm] can fill cracks, interconnecting crack networks and voids well below 0.001in.

Knowing the path of the crack is also a great advantage in providing a positively identified repair. TECVAC, Inc. pioneered the method to reception pre-test fractures. PermeJect[tm] allows the pre-testing of individual cacks for their ability to accept repair materials before injection. The continuity of the fracture can be traced and now most cracks in mass members can be confirmed "through" or "deadend" without costly instruments.

High pressures are proven to significantly contribute to the extension of the existing fracture and the problematic cause of dialectic internal damages. The PermeJect[tm] Process will introduce modern resins into cracks and crack networks, porous and unsound concrete, masonry and stone surfaces by creation of a low pressure atmosphere within the fracture zone. Pressure only techniques force the materials into the zone;The PermeJect[tm] Process draws the material into and along the zone using the nature of physics. The observable result is a fill and rebonding level unattainable by any other means.

From a 15' core sample...Perpendicular fracture filling at over 50" (1270mm) deep