

TDS 870319



ABATRON, INC.

ISO 9001:2000 Registered

The Abojet Series: Structural Crack-Injection Resins

Crack Injection: Restoration Instead of Demolition

Load Bearing Walls
Retaining Walls
Dams
Abutments
Foundations
Swimming Pools

Water Reservoirs
Silos
Marine Structures
Decks
Vaults
Bridge Piers

Columns
Pillars
Multilevel Garages
Domes
Concrete Pipes
Tanks

Elevators
Structures
Archeology
Sculptures
Art Restoration
Waterproofing

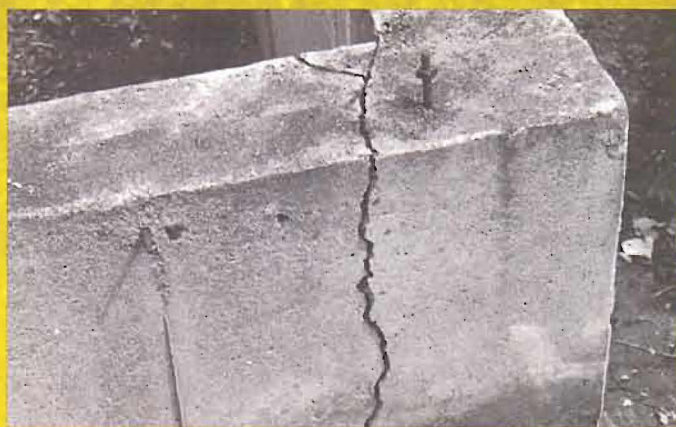
The Abatron ABOJET crack-injection system is a proven method to restore monolithic integrity to a cracked structural element by injecting a structural adhesive epoxy resin (ABOJET) into the crack, to fill and "weld" it back together. Since ABOJET bonds permanently and is stronger than concrete, the so "welded" wall can be stronger than originally.

The ABOJET series of resins is best known in the restoration of load-bearing walls, but its advantages are also obvious in restoring structural and decorative components, machinery and equipment supports, cable systems, bridges, artifacts, archaeological structures, sculptures.

Concrete is the material repaired in most cases, but most rigid materials can be restored, such as masonry, marble, stone, wood, ceramics, metals, stucco, gypsum.

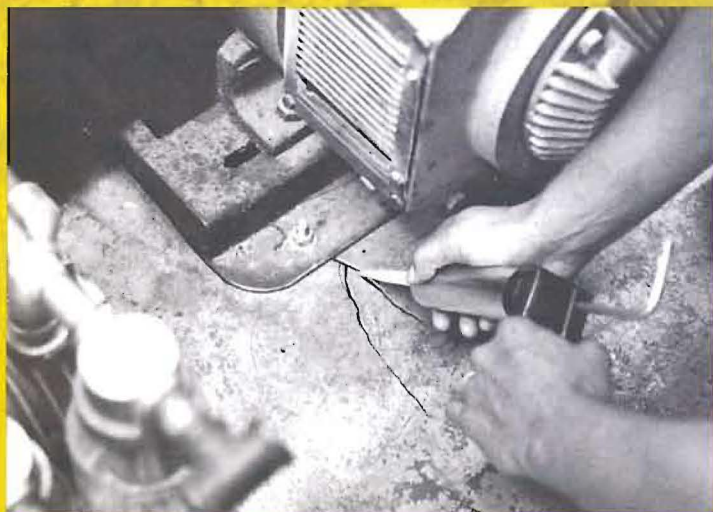
Normally, an ABOJET resin system consists of 2 solventless ("100% solids") liquids packaged separately: **Resin (part A)** and **Hardener (part B)**. When needed, A and B are mixed and the resulting blend is then injected into the crack or cavity. A reaction starts when A and B are mixed, and the blend will harden within minutes or hours (depending on the ABOJET chosen). Before hardening, the ABOJET A/B blend remains sufficiently fluid to be injected. The hardened system is dimensionally stable and virtually shrinkfree.

Where structural requirements cannot be compromised, the ABOJET system is often the only dependable and cost-effective alternative to demolition. Crack-injection with the ABOJET resins has also gained prominence in sealing foundations and other under-grade walls against water seepage.



The pictures above show front and back views of cracks in a foundation concrete wall that was condemned by the local building department because of crack damages. Further construction could be approved only after Abatrons's ABOJET injection resin and ABOWELD patching grout restored monolithic integrity, strength and water barrier. The only alternative the building inspector could have approved was demolition, removal and re-building.





With strength and durability many times that of concrete, ABOJET is ideal for crack repair in many high-stress situations, such as this cracked heavy machine footing. ABOCRETE or ABOWELD can also be used, if the crack is wide enough.



This crumbling, bulldozer-ready concrete stair is typical of a structure that could be completely restored by use of ABOJET, ABOWELD and/or ABOCRETE, depending on the structural requirements.

Alternative and Complementary Products

ABOCAST 22-8: Filled high-viscosity casting/injecting system. For wide cracks & large volumes. 100% solids. Pot life: 30-40 minutes. All-purpose repair and filling system for permanent repairs by casting or troweling.



ABOCRETE KIT: 5-gallon kit: 1 gallon resin/1 quart hardener/3.75 gallon sand. 100% solids. Pot life: 30-40 minutes. All-purpose repair and filling system for permanent repairs by casting or troweling.

ABOCAST 8005-6: Adhesive to bond poured concrete to old concrete and other surfaces. 100% solids. Ratio: 7/3. Pot life: 30 minutes.

ABOTAR 8101-8: All-purpose Epoxy-Tar coating/resurfacer/filler usable in any thickness, neat or with sand. For concrete, metal, wood and asphaltic surfaces. 100% solids. Ratios: 1/1 or variable. Pot life: 50 minutes.

ABOCOAT 8508-1 SERIES: Heavy-duty colored floor and wall coatings in many standard and custom colors. 61% solids. Ratio: 1/1. Pot life: 8-12 hours.

ABOCAST 8508-3 SERIES: Heavy-duty colored solventless floor and wall coatings/resurfacers in many standard and custom colors. Can be poured and spread in any thickness to renew pitted and spalled areas, to fill holes, depressions, cracks and create new surfaces. 100% solids. Ratio: 100/20. Pot life: 40-50 minutes.

ABOSOLV: Clear solvent-diluent for cleanup and dilution. Available in many versions.

Safety

All safety requirements described in the Safety Material Data Sheets are to be used in addition and accordance to federal, state and local rules. Although the above products don't present any great toxicity problems, all precautions should be observed dealing with hazardous materials, toxic vapors from organic materials, proper ventilation in enclosed areas, self-contained respirators where ventilation is not possible, protective/disposable clothing, gloves, goggles and protection against eventual dust.

The above information is only a general guide resulting from laboratory and field tests that may not apply to the user's conditions. No guarantee is offered, as applications are beyond our control. The user is urged to test and adapt the above data in his own conditions and environment previous to product adoption. Specifications may be subject to state-of-the-art changes.



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