



Crack Injection Products

Low Viscosity Epoxy Crack Filler

Description

Low Viscosity Epoxy Crack Filler Paste is a moisture insensitive epoxy with a 200 cps.

Uses

The Low Viscosity Epoxy Crack Filler Paste is designed for the injection of wet or dry cracks that need a structural repair and that are hairline or larger. It can also be used to repair hairline floor cracks.

Required Prep Work

Wall Crack Prep Work: Lay down crack injection drop cloth. Wire brush surface area to remove debris and roughen the surface. Place a Quick Set Surface Port or Quick Set Surface Seal & Peel paste cartridge in the injection gun. Remove caps and attach a 1/4": 24 Quick Mix Static Mixer onto cartridge using a retaining nut. Inject just enough of the paste into a stir dish that you can work with to attach ports. Mix well with a putty knife. NOTE: If desired paste can be injected into the stir dish without the use of a static mixer.

Prep for Low-Pressure Drill-In Ports: Put on a dust mask before drilling into concrete. For cracks 1/16" wide or less, cracks in corners and actively leaking cracks use a 5/8" concrete drill bit. Drill a 2 to 4" deep hole at a 15 to 30° angle intersecting the crack. You will feel a slight release of pressure when your drill bit intersects the crack. Repeat ever 8 to 10" alternating from side to side until entire crack is drilled. Use a can of compressed air or shop vac to remove concrete dust from drilled holes making sure the crack is not blocked with dust.

Floor Repair Prep Work: Concrete must have a minimum of 28 days of curing before application. The area must be dry. Not meant for expansion joints. For optimum appearance open up the crack a minimum of 1/4" wide by 1/4" deep using, a hand grinder and crack chasing diamond blade. Blow out the crack to clean out any loose debris. Oils, sealers, etc. will inhibit proper bonding of product. If you choose not to chase the crack the product can be ground off after initial set. Fill the crack with dry silica sand to prevent product from running through. Remove caps off cartridge and attach the static mixer with the retaining nut. While holding injection gun upward, place cartridge set into gun. Point nozzle upward and squeeze trigger until air and unmixed product is expelled from the static mixer. Maintain a constant flow through the mixer while the gun is pointed in the air. Product is now ready to be applied to repair area. NOTE: Pointing the gun upward and allowing product back into the cartridge from the static mixer will result in cross contamination and loss of product.

Soak silica sand with product until saturated leaving a slight hump. (Product can be scraped or lightly sanded once it has reached an initial cure to achieve a finished look.)

The product begins to set up very quickly. If allowed to sit in the mixer for more than six minutes, the mixer will become plugged. Unused product can be capped and reused as long as product that has entered the mixer has not been allowed to reenter either side of the cartridge.

Installation

Installing the Universal Wall Surface/Corner Mounts:

Using a putty knife, apply the paste to the base of each port, being sure not to cover the injection hole with the paste. Starting at the bottom of the crack, place ports every 8-10" apart until reaching the top of the crack. Installing Low-Pressure Drill-In Port Insertion: Insert the black-sleeved end into drilled hole. Note: No other parts are needed as the check valve inside the port prevents material from flowing out during and after injection.

Injection

Place the L V Epoxy Crack Filler cartridge in the injection gun. Remove the caps and attach a 1/4": 32 Quick Mix Static Mixer with a retaining nut. (Note: If needed, a Flexible Quick Hose Injection Assembly can be used instead of a mixing nozzle to inject the crack in the hard to reach areas.) Begin injection at the lowest port/mount, with slow consistency until product begins to flow from the port above. Remove mixing nozzle and begin injecting the next port and so on up the crack. Note: It is important to keep injection gun parallel to the port during the process. If fluid stops flowing through the static mixer and pressure increases on the trigger, this could be a sign of dust clogging up the flow of product in the crack. At this time, relieve pressure off gun, cap off port and move to next port. Should you experience a "blow out" during injection, inject that area with the Quick Set Urethane Adhesive or mix a little more paste to hold the injection material inside the crack.

After wall injection ports/mounts have been installed, inject a small amount of the A & B paste into a stir dish and mix with a putty knife to a consistent grey color. Paste the entire length of the crack making sure to feather the paste out a minimum of 2" wide. (By sealing the cracks entire length, you will help prevent the injection material from flowing back out of the crack.) Build the paste up 1/4" around each port. (By building up around the ports, there is less likely hood of a "blowout" around the ports due to the pressure of injection.) Allow paste to cure (App. 10-30 min.) Do not begin injection until surface of paste resists a putty knife impression. Remove paste cartridge from the injection gun and recap unused portion for future use. NOTE: To accelerate curing time a heat gun can be used.

After Injection Floor Repair: Allow product to set up for a minimum of 24 hours in cracks. If desired, ports and paste on wall can be removed after set up. A chisel and a



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hammer are required to get up behind the paste for removal or a grinder/sander can be used. If the Quick Set Surface Seal & Peel is used removal is best done within 24 hours of the application. Using a chisel and hammer work product off the wall and pull off the remainder. If left on longer, more force may be required. NOTE: For additional resources, see Mar-flex Crack Injection Instructional Video for Wall Injection.

Packaging

21oz 2:1 Dual Cartridge (Product & Catalyst) 8 per case.

Shelf Life

One Year – Unopened

Limited Warranty

We warrant the product to be of good quality and manufactured to meet published physical properties and quality control standards. Except as specifically provided herein, Mar-Flex makes no warranty, express, implied or oral including but not limited to any warranty or merchantability, fitness for a particular purpose, usage of trade, course of dealing or course of performance in connection with this agreement. In no event shall Mar-flex be liable on any such warranty with respect to the product. Mar-flex shall not be liable for incidental or consequential damages including, but not limited to damages of the structure, its replacement, contents or personal injury. Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

HEALTH AND SAFETY INFORMATION IS GIVEN IN THE MATERIAL SAFETY DATA SHEET AND THE PRODUCT DATA SHEET AVAILABLE FOR THIS PRODUCT. THESE SHOULD BE READ AND UNDERSTOOD BEFORE USING THIS PRODUCT.

Epoxy Crack Filler Low Viscosity Spec Sheet

Property	Method	Results
Color		Gray
Total Solids		100%
Application Method		Dual Cartridge Caulk Gun
Application Range		40° to 120° F
Elongation @ 70° F (21°C)	(ASTM D-3574-88)	400%
Total Cure Time		24 hrs.
Tensile Strength	(ASTM D-3574-86)	8,500 psi