



## Heavy Duty Crack Filler

Heavy-duty concrete repair for holes, cracks and spalls

### DESCRIPTION AND USES

Heavy Duty Crack Filler is a two component, 100% solids, high strength, high modulus, moisture insensitive, non-sag epoxy system. It is used for repairing cracks, holes, and other types of damage to concrete or as a high strength adhesive for projects that require a non-sag epoxy with a fast curing time. Cartridge packaging allows injection into cracks and holes in vertical applications. Heavy Duty Crack Filler is also suitable for use as a bonding agent for almost any material, including metal, concrete, brick, wood, stone, block, and other substrates. It can be used on wet surfaces and even in complete water immersion.

### PRODUCTS

A700629 - Heavy Duty Crack Filler  
Two Static Mixers Included (J510036)

### COMPANION PRODUCTS

J510035 - Heavy Duty Caulk Gun  
J510036 - Static Mixer

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strong and reliable

## SURFACE PREPARATION

New concrete must cure 28 days at 70°F (21°C) before repairs are made. Remove all dirt, grease, oil, salt or other contaminants by washing surface with Bio-D, commercial detergent or other suitable cleaner. Rinse thoroughly with fresh, clean water. Remove all loose, unsound, or deteriorated concrete. Smooth concrete surfaces should be sanded or wire brushed to provide a surface profile. For best results, cracks should be chased by grinder using a tuck point blade.

## MIXING

The material is properly proportioned when dispensed from the cartridge. Before attaching the static mixing nozzle to the cartridge, dispense a small amount of material into a disposable container until both materials flow evenly from the cartridge. Attach the mixing nozzle to the cartridge and dispense material until a consistent, uniform color with no streaks is obtained. The static mixing nozzle will completely and properly combine the two components and deliver fully mixed ready-to-apply material. For small applications, where the entire cartridge of material will not be used, a portion of material can be dispensed directly from the cartridge without the nozzle onto a flat surface and mixed together by thorough hand mixing. Do not thin with any type of solvent. Save the plastic cap and plug to reseal the unused material in the cartridge.

## APPLICATION

Apply only when air and surface temperatures are between 35-110°F (1.6-43°C). It is strongly recommended the material temperature be at least 50°F (10°C) prior to use. Colder material will require more effort to disperse material from the cartridge. Place the mixed material directly in the area to be repaired, then work the material smooth using a hand held steel trowel. For larger repair areas, the end of the static mixing nozzle can be cut off to increase the nozzle opening to achieve maximum flow. When using as an adhesive for anchor bolts, fill the hole to half of the depth, then insert the anchor bolt. When using more than one cartridge, the nozzle can be transferred from the empty cartridge to the new one in order to minimize material loss. Before transferring the nozzle, be sure to first dispense a small amount of material from the new cartridge to ensure both components have an even flow, then immediately attach the nozzle. Working time once dispensed is 8 minutes at 75°F. Do not allow material to stand in static mixing nozzle for longer than 5-6 minutes. NOTE: Due to the two component configuration of the cartridge the plunger will only travel ½ the length of the cartridge when empty.

## CLEAN UP

Clean up equipment with Xylene or mineral spirits.

## TECHNICAL DATA

| PERFORMANCE CHARACTERISTICS     | METHOD                               | RESULT                   |
|---------------------------------|--------------------------------------|--------------------------|
| Comprehensive Strength          | ASTM D695 at 65°F (18°C) at 7 days   | 8,000 psi                |
| Bond Strength                   | ASTM C882 at 2 days                  | 1,130 psi                |
| Bond Strength                   | ASTM C882 at 14 days                 | 1,690 psi                |
| Heat Deflection Temperature     | ASTM D648                            | 135°F (57°C)             |
| Consistency                     | ASTM C881                            | Non-sag paste            |
| Gel-Time                        | ASTM C881/60g mass                   | 8 minutes at 75°F (24°C) |
| Linear Coefficient of Shrinkage | ASTM D2566                           | 0.004 cm/cm              |
| Minimum Load Time               | Bolt-up time                         | 4 hours at 75°F (24°C)   |
| Shelf Life                      | 24 months. Store at 40-95°F (4-35°C) |                          |
| Mix Ratio                       | 1:1 by volume                        |                          |