

Concrete Floor & Slab Crack Repair

WITH EMECOLE 555 FAST REPAIR ADHESIVE



EMECOLE, INC.
Concrete Crack Repair Systems

Emecole 555 is an extremely thin liquid allowing the product to fully penetrate deep into a concrete crack. Emecole 555 gels rapidly in minutes, setting up in small cracks without draining through the slab.

Emecole 555 is intended for use in damaged concrete: from basement floors, driveways and garage floors, to control joints or warehouse spalls. The product can be ground smooth and becomes almost invisible when properly coated.



Emecole 555 provides critical crack repair while providing same day continuation of an overlay project. Topcoats can be applied over the repaired area in as little as 60 minutes.

Epoxies can become brittle and cure slowly. Emecole 555 does not, allowing it to out perform epoxy in slab repairs. Repairs using Emecole 555 are put back in service within an hour after the installation is made.

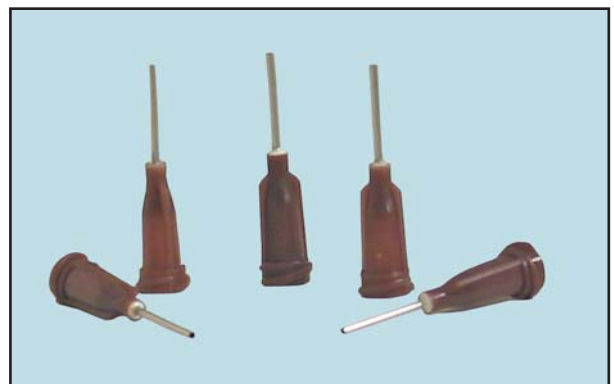
Emecole 555 is unique in that it can repair spalls and cracks of almost any size at below zero temperatures.

Emecole 555 Advantages

- May be mixed with sand and used as a repair mortar to fill large slab cracks, spalls and concrete edges
- Used without sand for hairline cracks
- Provides a smooth, permanent repair prior to concrete overlays
- Set time approximately three to four minutes
- Fifteen minute back-in-service time
- Very low viscosity, self-priming
- Extremely high impact resistant
- Can be applied in very cold applications
- Builds high strength, bonds in minutes
- Non-brittle, long term durability
- Convenient 1:1 mix ratio
- Saves man hours, reduces down time
- Highly fuel and chemical resistant
- Meets USDA requirements
- Provides smooth working surface for fork lifts

Small Crack Repairs Made Easy

Needle dispensers are included with all , accommodating small cracks where chasing with a grinder may not be suitable. A luer lock hub design makes it easy to connect to all Emecole static mixers. Emecole 555 can be added directly into the crack.





Performance Data

Typical Properties	Value (average)
Hardness @ 72 F (22 C)	72D
Compressive Strength (with sand)	4500 psi
Elongation	6%
Tensile Strength	4475 psi
Bond Strength, ASTM 882-99	1984 psi
Viscosity (at application)	<9 cps
V.O.C. (mixed)	5.5 g/l
Solids	98%
Cured Color	Gray



Opening the Crack

Preparation for crack repair with sand: Concrete must have a minimum 28 day cure prior to application. Clean the cracked area to be injected. For optimum appearance, open up the crack a minimum of 1/4" wide by 1/4" deep using a crack chasing diamond blade. Vacuum out the crack to clean out any loose debris. The area must be dry. Clean the surface and remove all unsound concrete, dust and debris. Prepare surface using a twisted wire wheel for spalls. Cut perimeter of damage with dry diamond blade. Fill opening with silica sand. Apply Emecole 555 onto the sand, letting resin completely penetrate and wet the sand.

Application: Work the repair area quickly. Screed to finished grade and allow to set. For better finished repair surface, "over fill" the crack. Allow it to set and grind using a grinder fitted with a fine grit wheel. Work in circular motion to grind/smooth to finished grade.

Emecole 555 can be used as a grout. Use equal parts of A and B mixed together. Add two parts of sand by weight. Sand filler should be of low moisture content. Grit sizes from 30 to 60. Pea gravel or number 10 grit sand can be used on very large cracks or spalls.



Before Work or Preparation

Before Final Grinding

Finished Project

First Time Use: Emecole 555 is a very fast set product; it is advisable to test this product before using it in an application. Become familiar with how this product works.

Product Availability: Emecole 555 dual cartridges are available individually, and in select slab repair starter kits with the necessary amount of accessories for the complete repair of slab cracks. Emecole's Slab Repair Kit includes one 300/300 manual dispensing tool. Slab Repair Add-On Kit also available, with all accessories minus dispensing tool.



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