



EMECOLE, INC.

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EMECOLE 101 CRACK 2:1 MV

PRODUCT PRESENTATION

EMECOLE CRACK 2:1 MV is a two-component, 100% solid, moisture insensitive epoxy resin system which has a unique high modulus of elasticity. EMECOLE 101 CRACK 2:1 MV is formulated to meet ASTM C-881 specifications.

USES

- A) Structural repair of cracked concrete by pressure injection, grouting.
- B) Monolithic restoration of delaminated concrete.
- C) Grouting material when mixed with aggregate.

SURFACE PREPARATION

All surfaces must be clean and free of dirt, dust, oil, grease or any contaminant that could adversely affect the bond. Surfaces must be structurally sound. Surfaces may be dry or damp. However, due to the many variables in bonding damp surfaces, be certain to make a test application under the same conditions as the full scale work.

Old Concrete: All loose particles or soft, weak sections must be removed. Asphaltic or oil contaminants should be removed with detergents or other cleaning materials. Surfaces should be thoroughly flushed with plenty of clean water and then treated with a 15% to 20% solution of muriatic acid. Mix the acid with water, approximately 1 part of acid to 3 to 5 parts of water, as required. Follow **SAFETY PRECAUTIONS** when using acids. Pour on surface in an even manner and thoroughly scrub until bubbling ceases. Rinse with plenty of clean water and allow to dry. Neutralize acid salts by scrubbing surface with ammonium hydroxide and rinse with plenty of clean water. If chemical means of cleaning does not properly prepare the surface, then other means of cleaning such as sandblasting, mechanical scarification and vacuuming should be utilized.

New Concrete: Do not apply curing compound. If curing compounds have been used, they must be removed.

APPLICATION

Injection Pressure: The material can be injected into cracks down to .002 inches with pressures ranging from 20 to 300 psi. Inject through plastic ports, T's or copper tubing. If using plastic ports, depending upon the depth of the slab, place them every 6" to 2' along the length of the crack. Wherever possible, seal all surfaces of the crack. When dealing with hydrostatic pressure, hydraulic cement should be used to control the water flow and seal the crack.

Begin injection of the mixed material with the lowest port or at one end of the crack. Continue pumping until resin flows from the next port. Then seal the first port and move onto the next one using the same procedure along the length of the crack.

Gravity: "Vee" out the cracks. Blow and clean out thoroughly with oil-free compressor air. Fill the cracks with RESIN. More than one application may be required.

TECHNICAL DATA

<u>PROPERTIES (UNCURED)</u>	<u>PART A</u>	<u>PART B</u>	<u>MIXED</u>
Viscosity, cps	3500	100-200	1600-1800
Mixing Ratio by Vol.	2 Vols.	1 Vol.	2:1
Shelf Life	1 year	1 year	_____
Pot Life: (50 gm)	_____	_____	10-15 min.
Tack Free Time (Thin Film)	_____	_____	1-3 hours
Final Cure (75% ultimate strength)	_____	_____	1-2 days

PHYSICAL PROPERTIES AFTER CURE OF 14 DAYS @ 75°F. AT 50% R.H.*

Tensile Strength, psi	ASTM D-638	9000
Tensile Elongation	ASTM D-638 modified	3%
Compressive Strength, psi	ASTM D-695	12,000
Compressive Modulus, psi	ASTM D-695 (28 days)	500,000
Shear Strength, psi	ASTM D-732	5,100
Deflection temp: @ 264 psi	ASTM D-648	126°F
Bond Strength, psi	ASTM C-882	2,800

* Listed for MV. Similar properties for LV (low viscosity); HV (high viscosity); and EHV (extra high viscosity) except for viscosities.

WARRANTY

Recommendations concerning the performance or use of this product are based upon independent test reports believed to be reliable. If the product is proven to be defective, at the option of the Manufacturer, it will be either replaced or the purchase price refunded. The Manufacturer will not be liable in excess of the purchase price. The user will be responsible for deciding if the product is suitable for his application and will assume all risk associated with the use of the product. This warranty is in lieu of any other warranty expressed or implied, including but not limited to an implied warranty of merchantability or an implied warranty of fitness for a particular use.