

CRACK INJECTION EPOXY

K-071

USER FRIENDLY MIX RATIO
B.G.E. FREE
HIGH STRENGTH

LOW VISCOSITY
EXCELLENT ADHESION
ASTM C 881 COMPLIANT

PRODUCT GENERAL INFORMATION

Copps' K-071 Crack Injection Epoxy is a unique formula developed for structural concrete repair by crack injection, gravity feed or patching. It can be used as a liquid binder for sand, aggregate or any other mineral filler to patch or resurface damaged concrete slabs. This material may be used to repair masonry, wood, and other rigid construction materials. K-071 is 100% solids, VOC free and Butyl Glycidyl Ether (BGE) free.

K-071 Crack Injection Epoxy has user friendly mixing ratio (2:1 by volume) which allows its application by dual cartridges or automatic injection equipment. Cap Seal with Copps' Non-Corrosive Crack Sealing Paste (K-093) for manual or automatic injection.

K-071 meets or exceeds requirements of ASTM C 881 or AASHTO M-235 (Types I and IV, Grade 1, Class C).

HANDLING PROPERTIES @ 77 °F (25 °C)

| | | |
|----------------------------------|-----------------|-------------|
| COMPONENTS | Resin, Hardener | |
| WEIGHT PER GALLON (MIXED) | 9.1 | |
| DENSITY (MIXED) kg/l | 1.09 | |
| MIX RATIO, pbv (pbw) | 2/1 (2.3/1) | |
| COLOR | Clear | |
| MIXED VISCOSITY, cP or mPa.s | 550 | ASTM D 2196 |
| WORKING TIME, min | 30 | |
| GEL TIME, min | 45 | |
| APPLICATION TEMPERATURE, °F (°C) | | |
| Ideal | 70-80 (21-27) | |
| Acceptable | 55-90 (13-32) | |

TYPICAL CHARACTERISTICS

| | | |
|---------------------------------|--|-------------|
| HARDNESS, Shore D | 86 | ASTM D 2240 |
| ADHESION to concrete, psi (MPa) | > 800 (5.5) (100% failure in concrete) | |
| COMPRESSIVE STRENGTH, psi (MPa) | 10,800 (74.5) | ASTM D 695 |
| COMPRESSIVE MODULUS, psi (MPa) | 262,000 (1,807) | ASTM D 695 |
| TENSILE STRENGTH, psi (MPa) | 8,500 (58.6) | ASTM D 638 |
| ELONGATION @ BREAK, % | 3.8 | ASTM D 638 |
| WATER ABSORPTION, % | 0.37 | ASTM D 570 |

1 - Butyl Glycidyl Ether. The EPA (SARA Title III, section 312) lists BGE as "Toxic" (per ANSI Z129.1) by skin absorption and an immediate health hazard.

SURFACE PREPARATION

To achieve excellent adhesion, the substrate should be free of all loose and foreign material and should be clean. Oils, grease, waxes or other contaminants must be removed prior to application. Be sure the crack is open where ports are placed. Set ports with Copps' Non-Corrosive Crack Sealing Paste K-093 or GP Adhesive K-008.

MIXING

Mix 2 parts A (resin) to 1 part B (hardener) for 3 minutes using a Jiffy Mixer and a slow speed drill. Mix at slow speed (less than 850 rpm) to avoid air entrainment. DO NOT mix more material than can be used within the stated working time. REMEMBER - you will have less working time at higher temperatures.

CLEAN-UP

K-071 Crack Injection Epoxy and sealing pastes, before they are fully cured (hard), may be removed from tools with Copps Enviro Kleen solvent or warm soapy water.

SAFETY PRECAUTIONS

Avoid breathing of vapors. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators and forced exhaust are recommended in confined areas, or when conditions (such as heated polymer, sanding) may cause high vapor concentrations. Do not weld on, burn or torch K-071 Crack Injection Epoxy or any epoxy material. Hazardous vapor is released when an epoxy is burned.

Wash skin with soap and water if contact occurs. If eye contact occurs flush with water for 15 minutes and obtain medical attention.

Read and understand all cautions on can labels and material safety data sheets before using this material.

WARRANTY AND DISCLAIMER

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