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Technical Bulletin

Crack Injection Epoxy - K-072

Description:

Copps' K-072 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-072 is 100% solids, VOC free and Butyl Glycidyl Ether (BGE)* free.

K-072 meets or exceeds requirements of ASTM C 881or AASHTO M-235 (Types I and IV, Grade 1, Class C).

Product Advantages:

- USER FRIENDLY MIX RATIO
- B.G.E. FREE
- HIGH COMPRESSIVE STRENGTH
- LOW VISCOSITY
- EXCELLENT ADHESION
- ASTM C 881 (AASHTO M-235) COMPLIANT

Application Guidelines:

K-072 Crack Injection Epoxy has a 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.

Handling Properties:

COMPONENTS	Resin, Hardener		
WEIGHT PER GALLON (MIXED)	9.1		
DENSITY (MIXED) kg/l	1.09		
MIX RATIO, pbv (pbw)	2/1	(2.4/1)	
COLOR	Clear		
MIXED VISCOSITY, cP or mPa.s	1,500		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)	

Physical Properties:

HARDNESS, Shore D	80		ASTM D 2240
ADHESION to concrete, psi (MPa)	> 800	(5.5)	(100% failure in concrete)
COMPRESSIVE STRENGTH, psi (MPa)	17,000	(117.2)	ASTM D 695
TENSILE STRENGTH, psi (MPa)	8,000	(55.2)	ASTM D 638
ELONGATION @ BREAK, %	2.0		ASTM D 638
WATER ABSORPTION, %	0.11		ASTM D 570

*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 contaminates 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 500 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. K-072 Crack Injection Epoxy and Sealing Paste, 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-072 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 safety data sheets before using this material.

WARRANTY AND DISCLAIMER