

Epoxy Anchoring Gel – K-082

Description:

Copps' K-082 Epoxy Anchoring Gel is a two component, non-sag structural epoxy designed to offer exceptional mechanical strength in anchoring/bonding applications. Due to its high bond strength to concrete, it is ideal to use for anchoring threaded rod or rebar dowels. The consistency of Epoxy Anchoring Gel is good for capping for crack injection or general surface repairs. K-082 is 100% solids, VOC free and Butyl Glycidyl Ether (BGE)* free.

K-082 meets or exceeds requirements of ASTM C 881 (Types I, II, IV, & V Grade 3, Class B & C).

Product Advantages:

- FRIENDLY 1:1 MIX RATIO
- SOLVENT FREE
- HIGH STRENGTH/MODULUS
- EASY-TO-APPLY PASTE
- NON-SAG
- ASTM C 881 COMPLIANT

Handling Properties:

COMPONENTS	Resin, Hardener
WEIGHT PER GALLON (MIXED)	11.93
MIX RATIO, pbv (pbw)	1/1 (1/1.4)
COLOR	Gray
CONSISTENCY	Non-Sag Paste
GEL TIME, min	9

Physical Properties:

HARDNESS, Shore D	88	ASTM D 2240
COMPRESSIVE STRENGTH, psi (MPa)	12,600 (86.9)	ASTM D 695
COMPRESSIVE MODULUS, psi (MPa)	356,850 (2461)	ASTM D 695
TENSILE STRENGTH, psi (MPa)	4,400 (30.3)	ASTM D 638
ELONGATION @ BREAK, %	1	ASTM D 638
BOND STRENGTH, psi (MPa) 2-day	2430 (16.8)	ASTM C 882
BOND STRENGTH, psi (MPa) 14-day	2730 (18.8)	ASTM C 882
HEAT DEFLECTION TEMP °F (°C)	131 (55)	ASTM D 648
WATER ABSORPTION, % (7-day)	0.20	ASTM D 570
LINEAR SHRINKAGE, %	<.005	ASTM D 2566

*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.

Mixing:

Pre-Mix each component separately. Mix 1 part 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-082 Epoxy Anchoring Gel, before 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-082 Epoxy Anchoring Gel 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.

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