KAUFMAN

PRODUCT INFORMATION

KAUFMAN PRODUCTS INC. 3811 CURTIS AVENUE BALTIMORE, MARYLAND 21226-1131 410-354-8600 800-637-6372 www.kaufmanproducts.net

SurePoxy LM GEL

Description
SurePoxy LM Gel is a 100% solids, low modulus, two component, moisture insensitive, multi-purpose epoxy gel. SurePoxy LM Gel contains no oil extenders. The true benefit of SurePoxy LM Gel is that it may be placed in depths up to 2" in a single lift, which by far surpasses the minimal ¼" non-sag requirement from ASTM. Additionally, SurePoxy LM Gel already has the aggregate extender added into the mixture, which saves time and expense on the jobsite.

Uses
SurePoxy LM Gel is primarily designed for vertical and overhead structural bonding, for bolt embedment, and sealing the ends of pre-stressed beams. Use wherever low modulus, non-sagging, gap filling adhesive is needed, such as bonding irregularly shaped structural materials, to seal cracks for injection grouting, as a pickproof sealant around windows, and bonding parking bumpers or barriers to concrete or asphalt.

Typical Properties - @ 75°F

Mixing Ratio	2:1 by volume
Color	A & B contrasting colors Mixed- Gray
Viscosity	Paste
Shelf Life	2 year minimum
Pot life, neat 1 lb.	30-40 minutes
Final Cure	7 days

Ultimate Physical Characteristics
(After cure at 75°F and 50% relative humidity)

Compressive Yield Strength	4,200 psi. @ 1 day
(ASTM D-695)	8,300 psi. @ 7 days
Bond Strength	1,750 psi. @ 2 days
(ASTM C-882, Moist Cure, Hardened Concrete to Hardened Concrete)	3,290 psi. @ 14 days
Bond Strength	3,780 psi. @ 14 days
(ASTM C-882, Freshly Mixed Concrete to Hardened Concrete)	
Compressive Modulus (ASTM D-695)	290,000 psi. @ 7 days
Tensile Strength	5,200 psi. @ 7 days
& Elongation (ASTM D-638)	5-15% psi. @ 7 days
Shrinkage (ASTM D-2566)	.004 in/in
Absorption (ASTM D-570)	.1%
Heat Deflection Temperature (ASTM D-648)	123ºF

All values approximate - will vary with temperature and humidity.

Specifications
ASTM C-881 Types I and II, Grade 3, Class C
AASHTO M-235, Types I and II, Grade 3, Class C
Virginia Department of Transportation, EP-6
North Carolina Dept. of Transportation, List #1
USDA Approved

VOC
0 grams/Liter

Packaging
3 gallon unit
15 gallon unit

Storage Conditions
Store dry at 45-95°F. Condition material to 65-85°F before using.

Directions
Surface Preparation Concrete - Surface must be clean and sound. It may be dry or damp but free of standing water. Remove oil, wax, curing compound, laitance, and other foreign matter as per ASTM D-4258 and D-4259. Waterblasting followed by shotblasting is the preferred method of preparation to provide a fractured aggregate profile. Also satisfactory are sandblasting or shotblasting individually. Acid etching according to ASTM D-4260 with 15-20% muriatic acid solution can be used as an alternative, Wash acid and loose mortar off with high-pressure water until slush is removed. Evaluate with litmus paper to be sure acid is completely removed. Final rinse with 1 % ammonia solution is beneficial. Steel - Sandblast to appropriate finish. Achieving a Concrete Surface Profile (CSP) of 4-6, as per International Concrete Repair Institute (ICRI) guidelines is ideal.

Proportioning/Mixing
The volumetric ratio of SurePoxy LM Gel is 2:1 (A:B). To mix, proportion 2 parts A and 1 part B into a clean pail. Mix thoroughly for 5 minutes with paddle on low speed (400-600 rpm) drill until blend is a uniform color. Normally use as supplied.

Place the prepared mortar in void, working the material into the prepared substrate, filling the cavity. Strike off level. Do not exceed lifts of 2 inches.

For professional use only. Not for sale or use by the public.

KAUFMAN PRODUCTS INC. 3811 CURTIS AVENUE BALTIMORE, MARYLAND 21226-1131 410-354-8600 800-637-6372 www.kaufmanproducts.net

Precautions

Material forms a vapor barrier after cure. Maximum mortar thickness is 2 inches per lift. Do not thin. Pot life may vary due to different temperatures. Store this product 45-90°F. If stored below 45°F, some lumps appear in the B component but disappear after combining with component A and does not harm the product. *Read Safety Data Sheet before using it*. Please refer to *the General Epoxy Instructions* for complete details on proper application during cold and hot weather. SurePoxy LM Gel is an ASTM C-881 Class C epoxy resin system. Using it in temperatures below 60ºF will affect the physical properties reported on the product data sheet. If using SurePoxy LM Gel in temperatures below 60ºF is desired, please consult Kaufman Products Technical Service Department for usage guidance.

When used as a vertical/overhead anchoring adhesive that will carry a sustained tension load, this product should not be used. This product is manufactured to meet all aspects of ASTM C-881 which includes no performance standards with regard to creep and/or deformation. It is the responsibility of the engineer and/or contractor to determine the suitability of this product for the intended use.

The NTSB has stated that epoxy adhesive products are approved for short term loads only and should not be used in sustained tensile load adhesive anchoring applications where adhesive failure could result in a public safety risk. Consult a design professional prior to use.

Technical Information

Test results were achieved under laboratory conditions. Statistical variations will occur based upon mixing methods, temperature & humidity, test methodology, site conditions, curing conditions, application methods, and equipment.