

K A U F M A N

PRODUCT INFORMATION

KAUFMAN PRODUCTS INC.

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SurePoxy LM GEL

Description

SurePoxy LM Gel is a 100% solids, two component, moisture-insensitive, epoxy resin system. This is a thixotropic, multi-purpose gel adhesive. SurePoxy LM Gel is non-shrinking, and contains no oil extenders or abrasive ingredients.

Uses

SurePoxy LM Gel is primarily designed for vertical and overhead structural bonding and for bolt embedment. Use wherever rigid, non-sag, gap filling adhesive is needed, such as bonding irregularly shaped structural materials and to seal cracks for injection grouting. Use as a pickproof sealant around windows, etc inside correctional facilities. Excellent for bonding parking bumpers or barriers to concrete or asphalt.

Typical Properties - @ 75°F

Mixing Ratio	2:1 by volume
Color	A/B cont. colors Mixed- gray Paste
Viscosity	Paste
Shelf Life	1 year minimum
Pot life, neat 1 lb.	25-35 min.
Final Cure	7 days

Ultimate Physical Characteristics

after cure at 75°F and 50% relative humidity

Compressive Strength	10,000 psi. @ 1 day
1:1 mortar ASTM D-695	14,000 psi. @ 7 days
Bond Strength	3,780 psi. @ 14 days
ASTM C-882	
Compressive Yield Strength	13,000 psi. @ 7 days
ASTM D-695	
Compressive Modulus	375,000 psi. @ 7 days
Tensile Strength	9,000 psi. @ 3 days
& elongation	1-5% psi. @ 7 days
ASTM D-638	
Flexural Strength	15,000 psi. @ 7 days
Flexural Modulus	450,00 psi. @ 7 days
Shrinkage, ASTM C-883	.002 max.

All values approximate - will vary with temperature and humidity.

Specifications

ASTM C-881, Types I, II, IV & V, Grade 3, Class C
AASHTO M-235, Types I, II, IV & V Grade 3, Class C
Virginia DOT, EP-6
USDA Approved

VOC

0 grams/Liter

Packaging

2.84 Liter (.75 gal. unit)
11.36 Liter (3 gal. unit)
56.78 Liter (15 gal. unit)

Storage Conditions

Store dry at 40-95°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. Test with litmus paper to be sure acid is removed. Final rinse with 1% ammonia solution is beneficial. Steel - Sandblast to appropriate finish.

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 2 minutes with paddle on low speed (400-600 rpm) drill until blend is a uniform color. Normally use as supplied.

For vertical and overhead patching, add 1 part SurePoxy LM Gel Aggregate to equal part SurePoxy LM Gel. Mix until uniform in consistency. Use promptly.

Place the prepared mortar in void, working the material into the prepared substrate, filling the cavity. Strike off level. Do not exceed lifts of 3 inches each.

Precautions

Only use SurePoxy LM Gel Aggregate to extend. Material forms a vapor barrier after cure. Maximum mortar thickness is 3 inches per lift. Do not thin. Pot life may vary due to different temperatures. Store this product 40-90°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 Material Safety Data before using. Please refer to *the General Epoxy Instructions* for complete details on proper application during cold and hot weather.

When used as a vertical/overhead anchoring adhesive that will carry a sustained tension load, this product is intended only for short-term use. 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.

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LIMITED WARRANTY We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salesmen, distributors and their salesmen have no authority to change the printed recommendations concerning the use of our products.