

K A U F M A N

PRODUCT
INFORMATION

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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 far and away surpasses the minimal 1/4" 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	290,000 psi. @ 7 days
(ASTM D-695)	
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	123°F
Temperature (ASTM D-648)	

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. Test with litmus paper to be sure acid is 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.