

K A U F M A N

PRODUCT
INFORMATION

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SurePoxy HM GEL

Description

SurePoxy HM Gel is 100% solids, two component, moisture-insensitive, epoxy resin system. This is a highly thixotropic, multi-purpose gel adhesive for use with concrete, metals such as steel, wood, and other substrates. SurePoxy HM Gel is completely non-shrinking and does not contain any oil extenders.

Uses

SurePoxy HM Gel is primarily designed for vertical and overhead structural bonding of either old concrete to old concrete or old concrete to new concrete and/or repair mortars, patching and for bolt embedment. Use wherever a 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 or inside correctional facilities. Use for bonding parking bumpers and barriers to concrete or asphalt.

Typical Properties - @ 75°F

Mixing Ratio	2:1 by volume
Color	Mixed: gray
Viscosity (ASTM D-1084)	A & B: Thick Liquids Mixed: Non-Sag Gel
Shelf Life	1 year minimum
Pot life, neat 1 lb.	33-40 min.
Final Cure	7 days
HDT (ASTM D-648)	131°F

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
(ASTM D-695)	
Tensile Strength	7,100 psi. @ 7 days
& elongation	1-5% psi. @ 7 days
(ASTM D-638)	
Flexural Strength	15,000 psi. @ 7 days
(ASTM D-790)	
Flexural Modulus	450,00 psi. @ 7 days
(ASTM D-790)	
Shrinkage, (ASTM C-883)	.002 max.
Water Absorption (ASTM D-570)	.1%
Shore D Hardness (ASTM D-2240)	91
Linear Shrinkage on Cure	.002
(ASTM D-2566)	

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
USDA Approved

VOC

0 grams/Liter

Packaging

3 gallon unit
15 gallon 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 HM Gel is 2:1 (A:B). To mix, proportion 2 parts A and 1 part B into a clean pail. Mix thoroughly for 1-2 minutes with paddle on low speed (400-600 rpm) drill until blend is a uniform color.

The product comes ready to use. The addition of aggregates is not necessary or desired.

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 each.

SurePoxy HM Gel can be smoothed easily by coating trowel with Mineral Spirits after void is filled.

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 40-90°F. If stored below 45°F, some lumps may appear in the B component, but will disappear after combining with component A and will not harm the product. *Read Safety Data Sheet 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.

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.

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

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