KAUFMAN

PRODUCT
INFORMATION

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SurePoxy HMSLV

Description
SurePoxy HMSLV is a new, extremely low viscosity, two component, 100% solids high modulus epoxy adhesive, and crack healer/penetrating sealer. Users will notice that SurePoxy HMSLV is 60-85% lower in viscosity than other low viscosity epoxy products. This epoxy system is insensitive to moisture before, during and after cure.

Uses
SurePoxy HMSLV is recommended neat as a crack healer and/or penetrating sealer for above and below grade structural repairs of horizontal decks, slabs, patios, driveways, parking garages. By gravity feed or pressure injection of cracks in structural concrete, masonry, wood, etc., it will re-bond cracks, delamination and hollow planes in concrete. It will penetrate cracks and develop a high bond strength upon curing, thereby allowing the normal transfer of loads designed in the original structure. Due to its extremely low viscosity, HM-SLV can penetrate deeper into smaller cracks than normal low viscosity epoxies.

Typical Properties- @ 75°F and 50% relative humidity.

Uncured

Mixing	2:1 volume
Color	A-straw; B-amber Mixed-amber
Viscosity (ASTM D1084)	170- 200 cps
Shelf Life	2 year minimum
Pot life, neat 1 lb.	30-45 min.
Tack-free (thin film)	18 hours
Final Cure	7 days

Cured

HDT- (ASTM D-648)	131°F
Bond Strength (ASTM C-882)	2,690 psi. @ 2 days 3,370 psi. @ 14 days
Shore D Hardness (ASTM D-2240)	75 min.
Compressive Strength 5:1 mortar (ASTM D-695)	7,700 psi @ 1 day 9,650 psi. @ 3 days 11,120 psi @ 7 days 11,410 psi @ 28 days
Compressive Modulus	400,000 psi. @ 7 days
Tensile Strength & elongation (ASTM D-638)	7,700 psi. @ 7 days 1-3% psi. @ 7 days
Flexural Strength (ASTM D 790)	14,000 psi. @ 7 days
Linear Coefficient Shrinkage on Cure (ASTM C-883)	.005 max
Water Absorption (ASTM D-570)	0.07 %

All values approximate-will vary with temperature and humidity.

Specifications
ASTM C-881, Types I, II, IV & V, Grade 1, Class C

AASHTO M-235, Types I, II, IV, and V. Grade 1, Class C

Packaging
16.5 oz cartridge
3 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 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.

Expansion/control joints, joint sealants, floor drains and floor termination joints require special attention. SurePoxy HMSLV will not usually adhere to sealant joints. Test first.

Proportioning/Mixing
The volumetric ratio of HMSLV is 2:1 (A:B). To mix, proportion 2 parts A and 1 part B into a clean pail. Mix thoroughly for 3 minutes, with paddle or low speed (400 to 600 rpm) drill until blend is uniform color.

Coverage
Typical coverage is 90-150 ft^2/gal. For crack healing and surface sealing. Coverage varies with porosity and surface profile of substrate. Higher porosity will reduce coverage.

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

Application

Healer/Sealer

Apply to horizontal surfaces by roller, squeegee or broom. Spread material over area and allow to pond over cracks. Let material penetrate into cracks and substrate. Remove excess leaving little visible surface film. A second application may be required on very porous substrates. If a second treatment is required, apply within 24 hours of the first one. After final treatment, wait at least 20 minutes but less than 2 hours at 73°F and cover with a light broadcast of a dry 8/20 or similar sand at 15-20 lbs. Per 100 ft^2. Remove loose sand before opening to traffic. The excess material removed from the floor can be stored in the original containers and allowed to harden. Once hardened, it is non-hazardous and can be disposed off by depositing in standard trash receptacles.

Gravity feed

For cracks greater than 1/8" wide, fill crack with oven-dried sand before applying SurePoxy HMSLV. Gravity feeding cracks: If crack goes through the entire surface requiring repair, seal underside with proper SurePoxy Gel. Pour neat SurePoxy HMSLV into V-notched crack. Continue pouring until cracks are completely filled.

Pressure Injection

Pressure injecting cracks: Insert ports into cracks and seal injection ports and crack surfaces with proper SurePoxy Gel. Allow to harden sufficiently and then use automated injection equipment or manual method to inject through injection ports.

Precautions

Do not thin. Pot life may vary due to different temperatures. Not for injecting of cracks under hydrostatic head. Material is a vapor barrier after cure. *Read Safety Data Sheet before using.* Please refer to the *General Epoxy Instructions* for complete details for proper application during cold and hot weather. SurePoxy HMSLV is an ASTM C-881 Class C epoxy resin system. Using it in temperatures below 60°F will affect the physical properties reported on the product data sheet. If using SurePoxy HMSLV in temperatures below 60°F is desired, please consult Kaufman Products Technical Service Department for usage guidance.

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.