

K A U F M A N

PRODUCT
INFORMATION

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SurePoxy VLM

Description

SurePoxy VLM is a two component, 100% solids, moisture-insensitive, epoxy resin system. It is a very low modulus, waterproof binder, which can tolerate greater variation in temperature and stress after curing. SurePoxy VLM is designed for application on damp or dry surfaces, free of standing water. It may be used neat or with aggregate to formulate a mortar or overlay system. VLM is capable of withstanding thermal and mechanical movements from 140°F down to -50°F. It is resistant to ice, gasoline, chemicals and oils.

Uses

SurePoxy VLM is especially recommended as a stress-relieved binder in abrasion and chemical resistant mortars on concrete or steel. It is also useful as a skid resistant overlay for concrete bridges, parking decks and roadways. It is resistant to water and chloride ion penetration.

Specifications

ASTM C-881, Type III, Grade 2, Class C
AASHTO M-235, Type III, Grade 2, Class C

Packaging

2 gallon unit
10 gallon unit

VOC

0 grams/liter

Proportioning/Mixing

The volumetric ratio of SurePoxy VLM is 1:1 (A:B). To mix, proportion 1 part A and 1 part B into a clean pail. Mix thoroughly with paddle on low-speed (400-600 rpm) drill until blend is uniform in color.

Coverage/Yield

Mortar

One gallon SurePoxy VLM, mixed with 5 gallons of SurePoxy Aggregate yields approximately .5 ft³ of epoxy mortar.

Overlay

Per 100 sq. ft.	SurePoxy VLM Gallon	Special Aggregate Pounds
First Coat	2.5	111
Second Coat	5.0	154

Total 7.5
265

Yields ¼" inch thick minimum.

Typical Properties @ 75°F

Mixing Ratio:	1:1 by volume
Color:	A-straw; B-amber; Mixed amber
Viscosity:	3100-3500 cps.
Shelf Life	1 year minimum
Pot life, neat 1 lb.	32 minutes
Tack-free (thin film)	4 hours
Final Cure:	7 days

Ultimate Physical Characteristics

after cure at 75F and 59% relative humidity

HDT

ASTM D-648	50°C
Bond Strength ASTM C-882	1,830 psi. @ 14 days
Compressive Strength 3:1 mortar ASTM D-695	7,000 psi. @ 1 day 7,500 psi. @ 3 days
Comp. Yield Strength ASTM D-695	6,000 psi. @ 7 days
Comp. Modulus ASTM D-695	110,000 psi. @ 7 days
Tensile Strength & Elongation ASTM D-638	3,000 min. psi. @ 7 days

All values approximate—will vary with temperature and humidity.

Application

Skid resistant overlay system - Apply first coat to properly prepare surfaces at coverage rate below using a squeegee. Immediately follow with a light roller pass to eliminate puddles and achieve a uniform film. Apply gap graded aggregate meeting below specification before SurePoxy VLM has become tacky.

Sieve Size	%Passing by Weight
4	100
8	30-75
16	0-1

Following initial cure, approximately 1-2 hours at specified rate, apply second coat of neat VLM at coverage rate below. Reapply aggregate again in similar manner. When sufficiently hard, open to traffic.

Patch and overlay mortar - Prime substrate with neat VLM using brush, roller, or squeegee. Prepare mortar by adding approximately 5-7 parts SurePoxy Mortar Aggregate to 1 part SurePoxy VLM by volume. SurePoxy VLM mortar must be placed while prime coat is still tacky. Trowel into patches, screed or trowel over large areas. Finish with steel trowel. To obtain an easy to clean finish, apply neat sealer coat of SurePoxy VLM when overlay has cured. One gallon of SurePoxy VLM, mixed with 5 gallons SurePoxy Aggregate yields approximately .5 cubic feet of epoxy mortar.

Precautions

Do not thin, store at 40-95 °F. The contractor shall use the test method prescribed in ACI 503R to determine that the preparation produced a surface capable of providing a tensile bond strength greater than 250 psi. Do not apply mortar over existing expansion joints or moving cracks and/or construction joints. Apply subsequent coats of epoxy within 4 hours of previous coat. SurePoxy VLM forms a vapor barrier after cure. *Read Safety Data Sheet before using.* Please refer to the *General Epoxy Instructions* for complete details on proper application during cold and hot weather.

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.

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