

KEMKO[®] 064 LV Utility Coat

Low Viscosity
Flexible Epoxy
Utility Coating

| | |
|----------------------|--|
| Type: | Two-component, solvent-free, epoxy resin / hardener. |
| Primary Use: | Protective coating; Impact, abrasion and skid resistant surfacing. |
| Substrates: | Concrete, masonry, stone, asphalt and steel. Dry surfaces only. |
| Minimum Temp: | Installation: 50° deg F, Cure: 50° deg F (substrate temperature). |
| Color: | Black and Concrete gray (blue-gray). |
| Finish: | Smooth or variable texture with aggregate broadcast. |
| Coverage: | As a surfacing, 80 - 125 sq ft / gal. |
| Thickness: | Single or multiple coats @ 6 - 10 mils per coat. |
| Shelf Life: | Three years minimum in sealed containers (see below for conditions). |

The properties listed in this bulletin are typical and should not be used for specification purposes. For specification preparation, reference the specification guideline available from ChemCo Systems, Inc. This product is available only through KIP System™ (KEMKO® injection process) applicators.

Description: KEMKO® 064 LV Utility Coat is a two-component, fast curing, flexible, low viscosity epoxy coating with resistance to most oils, greases and automotive chemicals. When seeded or blended with aggregate, it can be used on properly prepared asphalt and concrete pavements and on steel decks to provide a pedestrian or vehicular traffic surface with excellent slip/skid resistance and wear characteristics.

Features: Unlike many other flexible, exterior coatings, KEMKO 064 LV Utility Coat exhibits excellent resistance to water, aqueous salt solutions and motor fuels, does not embrittle when exposed to sunlight for long periods of time and is environmentally safe. It has a convenient 1: 1 (by vol.) mixing ratio and is formulated for multiple coat, low-build applications. It contains no volatile solvents (VOC's).

Limitations: Substrates must be dry. The minimum substrate temperatures during application and initial cure period (18 - 36 hr) is 50° F. Apply the material after the daily substrate temperature cycle has reached its peak. Substrates on or below grade must have a functioning vapor barrier to minimize the potential for blistering or delaminating of the applied coating.

Packaging: Standard package sizes of Part A + Part B are 2, 10 and 100 gallon units.

Shelf Life: Three years minimum in unopened, original containers when stored at room temperature in a dry place away from sunlight. Remixing of components may be required upon prolonged storage.

Chemical Resistance: KEMKO 064 LV Utility Coat is resistant to a wide range of commonly used aircraft and automotive chemicals including jet fuels, gasoline, selected hydraulic fluids, anti-freeze battery acid and most alkalies. It has limited resistance to hydrocarbon solvents. Performance is a function of the specific chemical and concentration, ambient and solution temperatures, residence times and housekeeping procedures. For information on specific chemicals and exposure conditions, contact a ChemCo Systems, Inc., technical representative.

Color Selection: Standard colors are black and concrete gray. Custom colors are available and may require minimum quantities and/or slightly higher cost.

Surface Preparation: Substrate surfaces must be dry, sound and free of all bond-inhibiting substances. Prepare surfaces in accordance with industry standards and manufacturer's specific recommendations. Cleaned concrete surfaces should have a minimum strength of 250 psi in direct tension. Cleaned asphalt surfaces should have a minimum strength of 100 psi at 73° +/- 4° F in direct tension. Steel surfaces should be cleaned to "white metal" according to SSPC SP 5.

Mixing: KEMKO 064 LV Utility Coat is a two-component system. The resin to hardener (Part A: Part B) mix ratio is 1: 1, by volume. Mix the individual components before drawing from bulk packaging. Wear safety glasses and clean neoprene rubber gloves when handling the material. Transfer the appropriate quantities of Part A and Part B into a mixing container. Use quantities that can be applied before the potlife of the mixed material expires. Blend thoroughly using a Jiffy mixer blade attached to a low speed (350 - 750 rpm) electric or pneumatic drill. Proper mixing will take 2 - 3 minutes.

Installing: As a Coating or Surfacing: Multiple coats (at least 2 - 3) are recommended to reduce the potential for holidays. Pour the mixed material onto the substrate and spread to the desired coverage rate with a V-notch trowel or squeegee. Allow the coating to become tacky to tack-free (3 - 6 hr @ 70° F) before applying the next coat. Avoid excessive cure times between coats. Aggregate, if used, must be broadcast onto the KEMKO 064LV within 15 minutes of applying the coating. The recommended aggregate size is #6x12 or #8x16 mesh. Typical aggregate broadcast rates are 1.25 - 1.75 lb/sq ft.

Yield as a Coating: The following material estimates do not take into consideration material lost in mixing and application and excess material required for filling rough surfaces.

| <u>Coating Thickness, mil.</u> | <u>Coverage, square feet/gallon</u> |
|--------------------------------|-------------------------------------|
| 15 | 107 |
| 20 | 80 |
| 25 | 64 |
| 30 | 53 |

Clean up: All tools and equipment must be cleaned before the mixed material cures. Cleaning can be facilitated with a solvent such as acetone or heavy-duty detergents. Cured material may be removed from equipment by soaking in an epoxy stripper.



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Typical Properties (1)

| Property | | Test Method | Value |
|-------------------------------|--------|-------------|---------------|
| Mix Ratio, A:B, | by vol | | 1 : 1 |
| | by wt | | 100 : 79 |
| Color: | Part A | VISUAL | Gray or black |
| | Part B | | Clear amber |
| | Mixed | | Gray or black |
| Weight per Gallon, lb: | Part A | ASTM D 1475 | 9.8 |
| | Part B | | 7.8 |
| | Mixed | | 8.8 |
| Viscosity, cps · | Part A | ASTM D 2393 | 900 |
| | Part B | | 1400 |
| | Mixed | | 1150 |
| Gel Time, 200 g, minutes | | ASTM D 2471 | 20 |
| Thin film tack free time, hrs | | ASTM D 1640 | 8 |
| Tensile Strength, psi | | ASTM D 638 | 1600 |
| Elongation at Break, % | | ASTM D 638 | 70 |
| Taber Abraser, mg loss | | ASTM D 4060 | 80 (2) |

(1) Cure schedule, 7 days at 73° +/- 4° F and test temperature, 73° +/- 4° F.

(2) CS-17 wheels, 1000 g load, 1000 cycles.

Handling and Toxicity: This bulletin does not accompany the product when sold. For hazard warnings, safe handling and first aid instructions. **READ CAREFULLY THE MATERIAL SAFETY DATA SHEETS AND CONTAINER WARNING LABELS.**

Part A: Liquid epoxy resin, HMIS Health Hazard Rating- 2 (Moderate Hazard). Warning! Causes eye and skin irritation. May cause allergic skin reaction, Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling, Avoid prolonged or repeated contact with skin.

Part B: Liquid epoxy hardener, HMIS Health Hazard Rating- 2 (Moderate Hazard). Contains alkaline amines. Warning! Causes severe eye and skin irritation, May cause allergic skin and respiratory reaction, Combustible, corrosive. Do not get in eyes or skin or on clothing. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from heat and open flame.

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