**PROFESSIONAL COATINGS**

**PRODUCT DESCRIPTION:**

**EPO-KOTE** is a two-component water based urethane that offers excellent clearness and gloss without the objectional solvent odors associated with other urethane products. **EPO-KOTE** is breathable, UV stable, and exhibits high gloss and excellent stain resistance. Available in clear or colored.

**RECOMMENDED USAGE**:

**EPO-KOTE** is an ideal coating for use over high end interior or exterior stained or stamped concrete. It’s also recommended for topcoats and finishes that require high abrasion and stain resistance. *Do not use in immersion service or constant chemical exposure areas*.

**PACKAGING INFORMATION:**

This product is available in 1.25 gallon #ES046-125 and 5 gallon #ES046-5 kits (volumes approximate)

**COVERAGE:**

No less than 250-275 square feet per gallon

**CURE SCHEDULE:**

Pot life (1 gal. volume) 1.5-2 hours @ 70º F

Tack free 6 hours @ 70º F

Recoat or topcoat 10 hours @ 70º F

Light foot traffic 16-24 hours @ 70º F

Full Cure 4-5 days @ 70º F

**LIMITATIONS:**

1. Clarity of color or gloss may be affected by high humidity, low temperatures or chemical exposure. Lighting like sodium vapor lights may affect color.
2. For best results use a good quality 3/8” nap roller.
3. Slab on grade requires moisture barrier.

* Substrate temperature must be 5°F above dew point.

1. All new concrete must be cured for at least 30 days prior to application.
2. Additional coats should be applied before a twenty four hour time period has elapsed, otherwise, it may be necessary to slightly roughen and degloss the previous coat.
3. Too thick of an application may result in solvent entrapment and subsequent product failure.
4. Physical properties listed on this technical data sheet are typical values and not specifications.
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6. See reverse side for application instructions.
7. See reverse sidefor limitations of our liability and warranty.

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| **GENERAL PRODUCT DATA** | |
| **FEATURE** | **ADVANTAGE** |
| **MIX RATIO** | One component |
| **RECOMMENDED COATING THICKNESS** | 3-4 mils wet (0.5 – 1.0 mils dry) |
| **APPLICATION TEMPERATURE** | 50-100 degrees F with relative humidity below 85% |
| **STANDARD COLORS** | Clear |
| **FINISH CHARACTERISTICS** | Gloss (70-100 at 60 degrees @ Erichsen glossmeter) |
| **Elongation AT BREAK** | 105% |
| **package life** | 1 year, unopened |
| **SOLIDS BY weight** | Mixed = 20% (+/- 2%) |
| **Abrasion Resistance** | Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = <50 mg loss |
| **Impact Resistance** | Gardner Impact, direct = 50 in.lb. (passed) |
| **Compressive Strength** | 4,400 psi (ASTM D-695-77) |
| **FLEXABILITY** | No cracks on a 1/8” mandrel |
| **ADHESION** | 345 psi @ elcometer (concrete failure, no delamination) |
| **Viscosity** | Less than 30cps typical |
| **VOLATILE ORGANIC CONTENT** | VOC= 0.60 grams/liter |

**CHEMICAL RESISTANCE**:

REAGENT RATING

xylene A

mek A

gasoline A

10% sodium hydroxide B

50% sodium hydroxide B

acetic acid 5% A

10% sulfuric B

10% hydrochloric acid B

20% nitric acid A

ethylene glycol B

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

**SURFACE PREPARATION:**

Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete has an appropriate vapor barrier. This can be done by placing a 4’X4’ plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate does not show signs of eventual hydrostatic pressure problems that may later cause disbanding. However, this product can be applied to a damp floor as long as there are not standing puddles.

**FOR BEST RESULTS:**

* Use for interior use.
* New concrete must cure for at least 30 days @ 70°F

(21°C).

* DO NOT thin EPOXY.
* DO NOT use when humidity exceeds 75% indoors.
* DO NOT allow material to puddle during application.
* Allow each coat to dry tack-free before recoating.
* Apply each coat within 24 hours of previous coat.
* Discard any material subjected to freezing.
* DO NOT apply to structurally unsound surfaces.
* Prime bare concrete with a suitable VSC primer.
* Apply a test patch to ensure adhesion.

**MIXING:**

This product should be stirred well before using. Mix with slow speed mixing equipment to avoid introducing air into the material. Allow the mixed material to induct for 15 minutes before using.

**APPLICATION:**

The material can be applied by brush or roller. Maintain temperatures and humidity within the recommended ranges during the application and curing process.

**RECOAT or TOPCOAT:**

To recoat this product, you must first be sure that all of the solvents and water have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or top coating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating can commence. We do not recommend any coatings be placed over this product except multiple coats of this product itself. If previous coats have a blush, clean with a standard type detergent cleaner.

**CLEAN UP:**

Use SOLVENT 101 or Xylol to clean tools immediately after installation. Follow product guidelines for safe use. Must allow adequate ventilation. DO NOT USE ALCOHOL.

**DISPOSAL:**

Empty containers may contain product residue, including flammable or combustible vapors. Do not cut, puncture or weld near these containers. Label warnings must be observed until containers have been commercially cleaned or reconditioned. Containers to be thrown out must be disposed of in accordance with federal, state and local regulations. Use only licensed hazardous waste disposal companies if required.

**PRECAUTIONS:**

Carefully read product labels, application guidelines and Material Safety Data Sheet before using all products. Contact with liquids may cause irritation. Use appropriate safety gear including eye protection. Must allow adequate ventilation.

**ADDITIONAL INFORMATION:**

For additional information or application help regarding this product or others please contact Vanberg Specialized Coatings at **1-800-874-0631** or **www.vanbergcoatings.com**