

Vanberg Specialized Coatings

Epo-Kote Gloss Finish Data Sheet



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 @ 70° F
 Tack free 6 hours @ 70° F
 Recoat or topcoat 10 hours @ 70° F
 Light foot traffic 16-24 hours @ 70° F
 Full Cure 4-5 days @ 70° F

LIMITATIONS:

- Clarity of color or gloss may be affected by high humidity, low temperatures or chemical exposure. Lighting like sodium vapor lights may affect color.
- For best results use a good quality 3/8" nap roller.
- Slab on grade requires moisture barrier.
- Substrate temperature must be 5°F above dew point.
- All new concrete must be cured for at least 30 days prior to application.
- 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.
- Too thick of an application may result in solvent entrapment and subsequent product failure.
- Physical properties listed on this technical data sheet are typical values and not specifications.
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- See reverse side for application instructions.
- See reverse side for limitations of our liability and warranty.

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)
FLEXIBILITY	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 @ 70F (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

WARRANTY STATEMENT

Information about VSC products is given to the best of our knowledge, based on tests and experience. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you will make your own tests to determine the suitability of the product for your particular purpose. As products are often applied or used under conditions beyond our control, VSC cannot guarantee anything but the quality of its products. VSC warrants that its products meet the specifications set forth by VSC, but we reserve the right to change any given specification without prior notice. VSC DISCLAIMS ALL WARRANTIES RELATING TO THE PRODUCTS AND THEIR APPLICATION, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Receipt of VSC products constitutes acceptance of the terms of this limited warranty and the terms and the conditions set out in our invoice, contrary provisions of buyer's purchase documents notwithstanding. Upon receipt of merchandise, purchaser has 30 days to notify VSC in writing that materials are defective. In the event VSC finds that the product delivered is off specification, VSC will, at its sole discretion, either replace the product or refund the purchase price thereof, and VSC's choice of one of these remedies is the buyer's sole remedy. In no event shall the liability of VSC exceed the purchase price of shipped merchandise. Claims must be in writing. Claims after 30 days are void. VSC will under no circumstances be liable for special, incidental or consequential damages. This warranty supercedes all other guarantees, whether oral or written, and whether expressed, implied or statutory. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Certain products may contain chemicals which may cause serious physical injury. Before using, please read the Material Safety Data Sheet and follow all precautions to prevent bodily harm.



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