

Vanberg Specialized Coatings

Epo-Seal WB/HS Epoxy Fast Data Sheet



PROFESSIONAL COATINGS

PRODUCT DESCRIPTION:

EPO-SEAL WB/HS EPOXY FAST is a 43% solids, proprietary "water-based", 2-component, penetrating clear epoxy coating that is fast drying, and offers excellent adhesion and wear resistance without odors, flammability, or VOC's. EPO-SEAL WB/HS EPOXY FAST meets all of the USDA guidelines for use in federally inspected facilities. EPO-SEAL WB/HS EPOXY FAST is available in clear.

RECOMMENDED USES:

EPO-SEAL WB/HS EPOXY FAST is recommended as a fast curing primer for other VSC products, or as a stand-alone sealer or coating (two coats) in areas that are subjected to medium to heavy traffic and moderate chemical spillage. It exhibits excellent abrasion resistance.

FEATURES:

- Waterborne
- Solvent-Free
- Good Mar Resistance
- Easy Mix Ratio
- Good Abrasion Resistance
- Eliminates Concrete Dust
- Moderate Chemical Resistance
- Excellent Adhesion
- No Induction Time
- Fast Drying Time
- Easily Cleaned

PACKAGING:

- 2-gallon unit #ES013-2
- 5-gallon unit
- .75-gallon unit #ES013-75

GENERAL PRODUCT DATA	
FEATURE	ADVANTAGE
SHELF LIFE	1 year (between 50°F and 85°F) (10°C and 29.4°C)
APPLICATION TEMP & HUMIDITY	55°F to 90°F with relative humidity below 85%
MIXING RATIO: RESIN TO HARDENER	4 to 1 by volume, 6.95# part A to 1.75# part B
COVERAGE	229 - 320 sq. ft. per gallon @ 5-6 mils wet thickness
WORKING TIME	2 hours @ 70°F
APPLICATION METHOD	Straight Squeegee & 3/8" (.95cm) Nap Roller
READY FOR RECOAT	2 - 4 hours @ 70°F
READY FOR FOOT TRAFFIC	6 - 12 hours @ 70°F
READY FOR HEAVY TRAFFIC	2 - 5 days @ 70°F
COLORS AVAILABLE:	Clear Only NOTE: the clear is not water clear and is not suitable for topcoating over previously color coated floors. The clear is suitable as a primer only
% SOLIDS BY VOLUME	40% (ASTM D-1464)
FLASH POINT	>200°F (93°C) (PMCC)
FLEXIBILITY	No Cracks on 1/8" mandrel
HARDNESS (SHORE D)	79+ (ASTM D-2240)
VOC	1.2 pounds per gal (mixed)
GLOSS (60°)	>60
IMPACT RESISTANCE	Gardner Impact, direct = 50 in. lb. (passed)
INDENTATION	None (MIL-D-3134F)
ABRASION RESISTANCE	45 mg loss (ASTM D-4060, CS-17 wheel)
FLAMMABILITY	Self-Extinguishing (ASTM D-635)
HEAT RESISTANCE LIMITATION	140°F Constant (60°C) 200°F Intermittent (93°C)
WATER ABSORPTION	0.3% (ASTM C-413)
COEFFICIENT OF FRICTION	0.77 (ASTM F-609)
VISCOSITY	400 - 900 cps (typical)

COVERAGE:

This product should be applied at the rate of approximately 229 to 320 sq. ft. per gallon (9.82m²/L), at 5-7 wet mils, or 2-3.5 mils dry. As with all coatings, coverage is dependent on the smoothness and porosity of the surface.

SURFACE PREPARATION:

For best results, the substrate must be clean, dry and sound with new concrete cured for at least 30 days at 70°F (21°C). However, EPO-SEAL WB/HS EPOXY FAST can be applied to "Green" concrete after 48 hours (the laitance must be removed). Remove dust, laitance, grease, curing compounds, waxes, foreign particles, disintegrated or soft base materials, and any previously applied potentially incompatible coatings. Create a surface profile on concrete by either mechanical abrasion or acid etching. Repair cracks and joints in accordance with VSC's Floor Patching & Joint Repair Guide. For additional concrete preparation information and methods, refer to VSC's Surface Preparation Guide. If the concrete surface is not prepared properly, product adhesion will fail and warranties will be voided.

FOR BEST RESULTS:

- Concrete must be prepared and cured in accordance to the above instructions.
- DO NOT thin the EPO-SEAL WB/HS EPOXY FAST.
- DO NOT use when humidity exceeds 85% indoors. If this occurs, use powerful industrial fans to create air flow away from the coating.
- DO NOT allow material to puddle during application.
- Allow each coat to dry tack-free and clear before recoating.
- Apply each coat within 24 hours of previous coat, making sure that all contamination has been removed since the last application.
- Discard any material subjected to freezing.
- DO NOT use any material beyond its shelf life.
- DO NOT apply to structurally unsound surfaces.
- DO NOT apply heavier than recommended wet film thickness.
- Apply a test patch to ensure adhesion to old paint.

Review VSC'S Material Safety Data Sheets (MSDS) for this product prior to mixing and applying. In addition, thoroughly review the Data Sheet and product labels.

MIXING:

Avoid mixing and application of this product if the floor temperature is below 55F (13°C) or above 85F (29.4°C). Also avoid application if the humidity is higher than 85% R.H. or lower than 25%. The temperature of the floor, materials and air in the area of the installation all play a role in how the product will apply and cure. Do NOT turn buckets upside down, as unmixed material may wind up on the floor and never cure. DO NOT change the ratio of Hardener to Resin. Blend thoroughly for 2 minutes with a spiral mixing blade (available from VSC) attached to a low-speed (400-600 RPM) electric drill.

Take care not to induce air into the material when mixing. This will cause "bubbles" in the coating when applied. Follow the mix ratio guidelines on the container labels.

POT LIFE:

At 70F (21°C) and 50% R.H., the EPO-SEAL WB/HS EPOXY FAST has a useful working time or pot life of 2 hours. Using any product beyond this time will result in variable results and therefore any mixed product beyond the pot life should be discarded. Apply all material to the floor as quickly as possible to increase working time.

APPLICATION:

The individual(s) applying the EPO-SEAL WB/HS EPOXY FAST should be wearing "spiked sandals" available from VSC. The recommended application of this product involves pouring it in a narrow line directly onto the concrete surface and then spreading it with a flat squeegee. Spread the coating in a continuous manner from one side of the area being coated to the other to flood the surface. Then, using the squeegee, pull the excess resin over the floor at the desired coverage rate. Immediately follow with a 3/8" (.95cm) nap shed resistant roller. The EPO-SEAL WB/HS EPOXY FAST must be rolled as evenly as possible. To do this, roll forward in a straight line and then roll the same column backwards to eliminate spike shoe marks. Overlap the next column to be rolled by 1/2" (1.3cm) with the previously rolled column. Avoid excess agitation of the liquids with the roller. This will lessen chances of bubbling of the final film. To achieve a smooth surface, it is recommended to re-roll the coating with a spiked roller to eliminate all subsurface bubbles, and alleviate fish eyes. The EPO-SEAL WB/HS EPOXY FAST can be applied at the rate of 229 to 320 sq. ft. per gallon (9.82m²/L). On rougher areas and shot-blasted floors, the coverage rates will be reduced. Allow the EPO-SEAL WB/HS EPOXY FAST to dry thoroughly before mixing and applying the next coat. It should be tack free before recoating (this takes between 2-4 hours @ 70°F (21°C) and 50% R.H.

CLEAN UP:

Application equipment should be cleaned using soap and water immediately after use, or solvent if necessary.

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 in accordance with federal, state and local regulations. Use only licensed hazardous waste disposal companies.

MAINTENANCE:

For optimal floor appearance and performance following installation, refer to VSC's Floor Maintenance Instructions.

CUSTOMER NOTE:

For information on application situations not covered above, contact your VSC representative.

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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August 8, 2012
Data Sheets/Epo-Seal WB HS Epoxy Fast

WARRANTY STATEMENT

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