# **Vanberg Specialized Coatings**

**Epoxy Gel Data Sheet** 



# PROFESSIONAL COATINGS

#### PRODUCT DESCRIPTION:

EPOXY GEL is a two-component 100% solids epoxy gel designed for shallow repair on either vertical or horizontal surfaces. This product is easy to mix and use and has the consistency of a heavy bodied Vaseline Petroleum Jelly. Additionally, the product, because it is a 100% solids product, can be applied thicker on horizontal surfaces when required.

# **RECOMMENDED USAGE:**

Recommended for repairing cracks and defects in concrete or masonry. The fast set time makes this product an ideal quick repair gel.

#### PACKAGING INFORMATION:

2 gallon kit (17 lbs net approximately) 10 gallon kit (85 lbs net approximately)

#### **COVERAGE:**

1 gal @ 1/2" wide by 1" deep covers 30-35 lineal ft.

#### **CURE SCHEDULE:**

Pot life (2 gallon volume) 7-10 minutes @ 70°F Tack free (dry to touch) 1-3 hours @ 70°F Recoat or topcoat 10-12 hours @ 70°F Light foot traffic 11-13 hours @70°F Full cure (heavy traffic) 2-7 days @ 70°F

#### LIMITATIONS:

- Color stability may be affected by environmental conditions such as high humidity or chemical exposure.
- · Colors may vary from batch to batch.
- This product is not UV color stable, but has good resistance to color change for an epoxy product.
- Substrate temperature must be 5°F above dew point.
- This product has a very short pot life. Therefore, mix only an amount that can be used in a short period of time.
- Do not topcoat over this product until it has sufficiently hardened.
- All new concrete must be cured for at least 30 days prior to application. See reverse side for application instructions.
- Physical properties are typical values and not specifications.
- See reverse side for limitations of our liability and warranty.

# CHEMICAL RESISTANCE:

RATING
С
В
В
Α
Α
Α
В
E
D
С
Α
С
Α

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.

GENERAL PRODUCT DATA	
FEATURE	ADVANTAGE
MIX RATIO	1 part Hardener to 4 parts Resin by
	volume
RECOMMENDED OVERLAY	1/8 <sup>th</sup> to 5/8 <sup>th</sup> inches
THICKNESS	
APPLICATION TEMPERATURE	60º-90º F with relative humidity below
	85% for best results. Substrate
	temperature above 50º
COLORS AVAILABLE	Clear (natural) and 12 Color Options
PRIMER	ARMOR-STONE
TOPCOAT OPTIONS	ARMORCOAT, ARMOR-ROCK, ARMOR-
	SLATE, ARMOR-GRIT, TEXTURE COAT
SOLIDS BY WEIGHT	100% (+/- 1%)
SOLIDS BY VOLUME	100% (+/- 1%)
FLAMMABILITY	ASTM E-648 Self Extinguishing
FLEXURAL STRENGTH	8,000 psi @ ASTM D-790
COMPRESSIVE STRENGTH	11,000 psi @ ASTM D-695
TENSILE STRENGTH	8,500 psi @ ASTM D-638
	4500.5 (; )
HEAT RESISTANCE	160º F (immersion)
ADDACION DECISTANCE	185º F (dry heat) ASTM C-501(CS-17 wheel with 1000
ABRASION RESISTANCE	,
	gram total load and 1000 cycles) = 35 – 40 mg loss
IMPACT RESISTANCE	Withstands 16ft./lbs. no cracking,
INFACT RESISTANCE	delamination or chipping MIL- D-3134F
	§ 4.7.3
HARDNESS	ASTM D-2240 Shore D =
	,
VOLATILE ORGANIC CONTENT	Nearly zero pounds per gallon.
DOT CLASSIFICATION	Part A "not regulated"
20.000000000000000000000000000000000000	Part B "CORROSIVE LIQUID N.O.S., 8,
	UN1760, PGIII"
SHELF LIFE	1 year in unopened containers
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#### SURFACE PREPARATION:

The substrate must be clean, dry and sound with new concrete cured for at least 30 days at 70°F (21°C). A moisture test is recommended. 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 the surface by steel shot blasting, mechanical abrasion or acid etching (VSC CONCRETE CLEAN & ETCH). Repair cracks and joints with VSC's repair products. For additional concrete preparation information and methods, refer to VSC's Surface Preparation Guide. If the concrete surface is not prepared properly, product adhesion can be a problem.

#### FOR BEST RESULTS:

- Use for interior applications (UV exposure can discolor).
- New concrete must cure for at least 30 days @ 70F.
- 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.

#### PRIMING:

Thoroughly mix, then squeegee and roll coat apply **ARMOR-STONE EPOXY** at the rate of 75 sq. ft. per .5 gallon unit. The **ARMOR-STONE MORTAR** mix is applied over wet and tacky primer.

Review VSC'S Material Safety Data Sheets (MSDS and Data Sheet) for the primer prior to mixing and applying.

#### MIXING:

Avoid mixing and application of this product if the floor temperature is below 55F ( $10^{\circ}C$ ). Also avoid application if the humidity is higher than 85% R.H. The product temperature should be at or near  $70^{\circ}F$ . 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.

For pre-packaged kits: Carefully pour entire contents of Hardener and the Resin into a container. DO NOT change the ratio of Hardener to Resin. Blend thoroughly for 2 minutes with a spiral-mixing blade (PROP MIXER #TS46565) attached to a low-speed (400-600 RPM) 1/2 inch electric drill. Take care not to induce air into the material during mixing. Pour the mixed liquids into a 5-gallon pail mixer (#TSKM5825). Pour in 35 lbs. of selected aggregate and mix thoroughly in the pail mixer.

For bulk 25 units: Portion out 13 fl. Oz. Hardener and 52 fl. Oz. Resin into a clean pail. Mix thoroughly as stated above. Colorants: VSC COLORANTS can be added at the rate of 8 fl. Oz. per batch. VSC EPOXY CATALYST (KICKER PACK) can be mixed into the batch to hasten cure at the rate of 2 fl. Oz.

#### POT LIFE:

At 75F (23.9°C) and 50% R.H., this epoxy has a useful pot life of approximately 15 minutes. If the product or conditions become warmer the pot life and working times will be shortened significantly. Using any product beyond the useful life 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. If product begins to heat or steam do not put it on the floor (Discard).

#### APPLICATION:

The recommended application of this product involves placing the mortar over the surface using a screed box or gage rake. Spread the mortar at the decided upon coverage rate. Immediately follow with hand trowel (#TST1MT & #TSTC6C) or power trowel. The individual(s) applying the epoxy should be wearing "spiked sandals (#TS46106)". Allow the mortar to cure thoroughly before mixing and applying the next coat (if used). It should be tack-free before recoating.

## **CLEAN UP:**

Use SOLVENT 101 or xylol.

#### **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.

#### 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 not withstanding. 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 t