

# Vanberg Specialized Coatings

## Epoxy Joint Fill Vertical Data Sheet



### PROFESSIONAL COATINGS

#### PRODUCT DESCRIPTION

EPOXY JOINT FILL VERTICAL is a two component 100% solids flexible sealant paste designed for applications where a resilient flexible non-sag material is needed. This product is available in a lower viscosity version that is more suitable for horizontal applications. EPOXY JOINT FILL is an excellent choice for vertical expansion joint applications. This product has excellent flexibility and provides exceptional adhesion characteristics. The standard material is supplied with black and white components so proper mixing can be easily observed.

#### RECOMMENDED FOR

Recommended for expansion joints in vertical structures, vertical and overhead repairs and any other non-sag vertical application repairs of joints or cracks in concrete or masonry surfaces.

#### NOT RECOMMENDED FOR

Not recommended for applications for all acids and chemicals.

#### CURE SCHEDULE

Pot Life (2 gallon mix) 20-35 minutes @ 70°F  
Recoat or Topcoat 12-16 hours @ 70°F  
Light Industrial Use 24-36 hours @ 70°F  
Full Cure (Heavy Use) 3-5 days @ 70°F

#### APPLICATION TEMPERATURE

Above 50°F

#### LIMITATIONS

- Color stability may be affected by environmental conditions such as high humidity or chemical exposure.
- Colors may vary from batch to batch.
- Substrate temperature must be 5°F above dew point.
- All new concrete must be cured for at least 30 days prior to application.
- This product must be mixed very well before using.
- See reverse side for application instructions.
- Test data based on neat resin.
- Physical properties are typical values and not specifications.
- See reverse side for limitations of our liability and warranty.

#### SHELF LIFE

6 months in unopened containers.

#### PRIMER

None required.

#### TOPCOAT

None required. Many epoxies and urethanes are compatible.

#### GENERAL PRODUCT DATA

| FEATURE                         | ADVANTAGE  |
|---------------------------------|--|
| <b>SOLIDS BY WEIGHT</b>         | 100%   |
| <b>VOLATILE ORGANIC CONTENT</b> | Zero pounds per gallon   |
| <b>COLORS AVAILABLE</b>         | Gray (mixed) Part A is white and Part B is black   |
| <b>RECOMMENDED THICKNESS</b>    | Variable (between 1/2" and 1 1/2")   |
| <b>COVERAGE PER GAL</b>         | 1 gal yields @ 1/2" by 1" yields 30-35 linear feet   |
| <b>PACKAGING (CUBIC FEET)</b>   | 2 gal kit .24 (approximately)<br>*2 gal kit = 10.85lbs/gal (.90-.95 gal net) part A and 11.3lbs/gal (.90-.95 gal net) part B (volumes and weights approximate) |
| <b>MIX RATIO</b>                | 1 to 1 by volume (10.85lbs part A to 11.3lbs part B)   |
| <b>FLEXURAL STRENGTH</b>        | 1,600 (ASTM D-790)   |
| <b>TENSILE STRENGTH</b>         | 1,400 psi (ASTM D-412)   |
| <b>ELONGATION AT BREAK</b>      | 67% at 70°F (ASTM D-412)   |
| <b>IMPACT RESISTANCE</b>        | Excellent  |
| <b>ABRASION RESISTANCE</b>      | 24.2mg loss with a 1000g total load at 1000 revolutions with a CS10 wheel  |
| <b>FLEXIBILITY RANGE (TEMP)</b> | This product remains flexible from -40 to 200°F  |
| <b>PRODUCT TYPE</b>             | Epoxy urethane hybrid  |
| <b>SHORE HARDNESS</b>           | Shore A = 65, Shore D = 25   |
| <b>ADHESION</b>                 | 350 psi (elcometer) – no delamination/concrete failure   |
| <b>VISCOSITY</b>                | Mixed = 850,000 to 1,350,000 cps (typical)   |
| <b>DOT CLASSIFICATION</b>       | Part A "Not regulated"<br>Part B "CORROSIVE LIQUID NOS, UN1760, PGIII"   |

**COVERAGE:**

1 gallon at 1/2" wide and 1 1/2" deep covers 30-35 linear feet.

**SURFACE PREPARATION:**

All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. We recommend that all loose concrete, previous patching compound or other foreign material be removed to leave a clean sound joint or repair area. For best results, when the depth of the repair area permits, a backer rod should be used to reduce the depth of the repair area. If the repair is too deep to prevent sag or slump, apply the material in multiple coats. For vertical surfaces, a lower viscosity version of this product is available.

**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.

**PRIMING:**

No primer is necessary. This material is self-priming. However, any suitable primer can be used.

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

**MIXING:**

It is important that material be mixed well. Therefore take a few extra minutes to make sure adequate time has been taken to mix the two components together thoroughly. Improper mixing will cause an incomplete cure and soft spots in the repair area or joint. Mix one part (by volume) part A to one part (by volume) part B in an oversized mixing container. Mix well with slow speed mixing equipment until totally streak free being sure to scrape the sides and bottom of the mixing container thoroughly. Avoid high speed mixing as this could force air into the product.

**POT LIFE:**

At 75°F (23.9°C) and 50% R.H., this epoxy has a useful pot life of approximately 20 minutes. 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:**

Apply the mixed product by placing the material into the repair area or joint with a margin trowel, putty knife or other suitable equipment. Remove any excess material with a putty knife or similar tool prior to curing. Alternatively, it may also be suitable to let the product become tack free in the joint and then using a razor scraper to cut off or shave the excess above the surface plane. Maintain

temperatures within the recommended ranges during the application and curing process. When temperatures are lower, allow more time for his material to cure.

**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.

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**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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