

Vanberg Specialized Coatings

Epo-Set 400 Data Sheet



PROFESSIONAL COATINGS

PRODUCT DESCRIPTION:

EPO-SET 400 is a fast-set polymer paste in a dual cartridge system applied with a "standard caulking" gun. It's mixed and applied in a static mixing nozzle.

RECOMMENDED USAGE:

Industrial repair of spalled concrete, holes, cracks and thresholds or uneven concrete slabs. Use to re-set metal posts and dams. Also used as a structural adhesive. *Not recommended for expansion joints.*

PACKAGING INFORMATION:

Packaged as a dual 300ml cartridge system with two internal cartridges within a single tube and a single static mix tube. Applied with a standard caulking gun. Available as a single set packed in a box or twelve sets per case.

COVERAGE:

Coverage is dependent on hole size. One 9 fl. Oz. (300 ml) cartridge set will repair approximately 11 linear ft. ¼" x ¼" (18.3 cubic inches).

CURE SCHEDULE:

Pot life (100 gram mass)	5 - 10 minutes @ 77° F
Initial Cure	1 - 2 hour @ 77° F
Recoat or topcoat	1 - 2 hours @ 77° F
Final Cure	24 hours @ 77° F

LIMITATIONS:

- DO NOT POINT TUBES UPWARD AFTER THE MIXING NOZZLE HAS BEEN ATTACHED AND PRODUCT HAS BEEN DISPENSED AS THIS MAY CAUSE MATERIAL TO FLOW BACK INTO THE TUBES AND CAUSE CLOGGING OR GELATION.
- Because of the quick cure time for this product, it is best to work with one small area at a time. If the material is allowed to stand for more than 1-2 minutes after initial use, then the material in the static mixing nozzle will cure. If the material in the mixing nozzle is allowed to cure, then the nozzle must be removed and a new nozzle attached. The material in the individual tubes are unaffected by the curing of the product in the nozzle.
- Color stability may be affected by environmental conditions such as UV light, high humidity or chemical exposure.
- Product may discolor if exposed to certain types of light such as sodium vapor lighting.
- Final cured product 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.
- When applying material in cold areas, make sure the surface is clean and dry. Also, it is best to keep the material and aggregate sand at normal room temperature.
- Test data based on neat resin unless otherwise noted
- See reverse side for application instructions.
- Physical properties are typical values and not specifications.
- See reverse side for limitations of our liability and warranty.

GENERAL PRODUCT DATA

FEATURE	ADVANTAGE
MIX RATIO	The mix ratio is 1:1 by volume
RECOMMENDED COATING THICKNESS	EPO-SET 400 can be applied at variable thicknesses
APPLICATION TEMPERATURE	40°-90° F with relative humidity below 85%
STANDARD COLORS	Gray colored when mixed
ABRASION RESISTANCE	Excellent
IMPACT RESISTANCE	Excellent
COMPRESSIVE STRENGTH	13,500 psi (ASTM D-695)
TENSILE STRENGTH	5,450 psi (ASTM D638-77a)
FLEXURAL STRENGTH	5,882 (ASTM D 790)
VISCOSITY	Gel
HARDNESS	71 (ASTM D-2240/Shore D Durometer)
BOND STRENGTH	3,250 psi (ASTM C-882)

SURFACE PREPARATION:

All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. For repair of spalled concrete, a stiff wire brush can be used to remove all loose concrete. After wire brushing the spalled area, remove all loose dust and debris with an industrial vacuum.

FOR BEST RESULTS:

- New concrete must cure for at least 30 days @ 70F (21°C).
- DO NOT thin EPOXY.
- Discard any material subjected to freezing.
- DO NOT apply to structurally unsound surfaces.
- Apply a test patch to ensure adhesion.

PRIMER:

Self priming

TOPCOAT:

None required. However, many types of products can be used as coatings or overlays for the area that has been patched.

MIXING:

The product is mixed as it spirals its way through the static mixing tip. It is beneficial to discard a portion at the beginning to avoid unmixed material being used.

DISPENSER ASSEMBLY:

To assemble, hold tubes with tip facing upward. First, remove protective cap from tube set. Next, remove the inner cap. Finally, slip the screw collar over the tip and tighten on the tube set and then place the tube set into the tube applicator gun.

APPLICATION:

To anchor bolts, dowels and pins – Place the mixed material around the item.

To seal cracks – Place the mixed material over the cracks and press into the crack using a margin trowel.

As structural adhesive – Apply the mixed material to the prepared substrates. Work into the substrate for positive adhesion. Secure the unit firmly until the epoxy has cured.

CLEAN UP:

Use SOLVENT 101 or Xylol to clean tools immediately after installation. Follow product guidelines for safe use. Must allow adequate ventilation.

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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