



VEXCON
CHEMICALS, INC.

Concrete solutions for architects, engineers and builders since 1974
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CERTI-VEX® EPOXY GROUT 100

HIGH DURABILITY • CHEMICAL RESISTANT • 100% ACTIVE

DESCRIPTION

CERTI-VEX EPOXY GROUT 100 is a unique flexible repair grout system which provides a tough and durable grout with excellent adhesion and flexibility, as well as high impact and abrasion resistance. The Certi-Vex Epoxy Grout 100 system is designed to eliminate the failure of adhesion associated with epoxy and polyurethane grouts due to moisture.

Certi-Vex Epoxy Grout 100 has the unique ability to deform under load thereby absorbing and dampening the effect of shock, vibration, and heavy load without cracking. Under load, Certi-Vex Epoxy Grout 100 can deform as much as 4% and return to the initial dimensions. It also resists solvents such as gasoline, kerosene, and alcohols. The system is ideal for use in industrial or transportation environments, underwater applications as well as anchoring and sealing rail posts.

BENEFITS

- Meets US EPA & OTC AIM VOC regulations
- Provides excellent adhesion, flexibility, durability, and resistance to impact, water and abrasion
- Certi-Vex Epoxy Grout 100 is available in French Gray and Concrete Gray

RECOMMENDED FOR

- Prison door seals
- Balcony rail posts
- Machine foundations
- Bridge joint seals
- Lag bolt placement
- Crack repair
- Concrete resurfacing

APPLICATION

- Clean area to receive Epoxy Grout, thoroughly removing all dust, dirt and debris. Use Vexcon **Certi-Vex® Concrete Stripper**, product data sheet #OP101, to remove any old sealers, curing compounds, epoxies, urethanes, adhesives, dirt and grease.
- Primer may be required if using Certi-Vex Epoxy Grout 100 as a mastic texture. Contact Vexcon Chemicals for information.
- The grout system is supplied in three parts, a two-part polymer A and B, and aggregate/sand, part C, which are mixed together just prior to use.
- Separately mix parts A and B with Jiffy-type mixer until uniform in consistency. When this is done, mix part B into part A and mix until uniform. After thorough mechanical mixing, allow the mixed product to stand undisturbed for a 10-minute induction period.
- Mix in the part C aggregate/sand with a Jiffy-type mixer.
- Apply with trowel.
- Mixed material has a pot life of 2 hrs.

UNDERWATER APPLICATION:

Reduce sand addition by 50%. Mix as above. Pour into cavity tightly. Curing of underwater application is usually 7-10 days @ 60°F / 15°C. Do not use below 50°F / 10°C; water cure will be retarded.

SPECIAL NOTES

- Certi-Vex Epoxy Grout 100 has splash and immersion resistance to many chemicals and can be used in areas where splashed materials will be removed in reasonable times, usually 4-24 hours. For immersion test information, please see other side. If chemical is not on list, do not use in constant immersion applications without first consulting Vexcon Chemicals.
- Can be applied in 3"- 4" lifts to a feather with a sand grain trowel appearance.
- Do not apply below 40°F / 5°C.
- Additional material can be applied after 6 hours and within 48 hours without abrading the surface.
- After 7-day full cure, proper surface preparation, including surface abrasion, must be performed prior to troweling down additional material.
- Same lot numbers should be used throughout the project. If lot numbers differ, box-mix prior to use.
- Shelf Life: If properly stored in its original sealed container, one year. Rotate your stock.
- For use by experienced contractors.
- Proper application of Vexcon material is the responsibility of the installer or user. Telephone consultation and/or field visits by Vexcon personnel are for the sole purpose of making technical recommendations only, and not for providing quality control or supervision on location.

DURABILITY & WEARABILITY TESTING

Independent lab testing has confirmed that Vexcon's Certi-Vex Epoxy Grout 100 provides outstanding physical strength characteristics. The system's hardness and durability far exceed standard levels for the product mil levels. The following are specifications on the Certi-Vex Epoxy Grout 100 unfilled.

Hardness, Shore A ASTM D2210	85°
Hardness, Shore D ASTM D2210	45°
Adhesion ASTM D4541	275 psi
Water absorption % 72 hrs. ASTM D570:	0.80%
Jet fuel immersion, absorption %:	0.0%
Flexibility 1/8" Mandrel ASTM D522 Method B	NONE
Cracking or Loss of Bond:	
Abrasion ASTM D968	>30 L/mil
Falling Sand 25 L/mil min.:	
Elongation ASTM D638	45%
Tensile Strength ASTM D638	292 psi
Data per DL Labs Tests Reports, DL-11875A, 11371, 11887.	
Reports available upon request.	

SPECIFICATIONS/COMPLIANCE

- Certi-Vex Epoxy Grout 100 is a concrete repair material, which is not a category of VOC rules for Architectural and Industrial Maintenance Coatings.
- USDA requirements for coatings for use in federally inspected meat and poultry plants
- Class A Fire Rating

SEALANT TEST DATA – CTL

COMPRESSION TESTING OF CERTI-VEX®

EPOXY GROUT

Following your directions we mixed the Part A, Part B and the sand you provided and cast 3x6-in. cylinders. The cylinders were kept in their molds until the time of test. The following are compressive strength tests results.

The specimens were tested at an initial loading rate of 35 psi/sec. Shortly after application of load the specimens began to visually deform longitudinally and laterally. Load was increased until a maximum value was obtained after which load was removed at a rapid rate. After removal of load, all specimens returned to their approximate initial dimensions.

Ronald G. Berg, P.E.
Principal Engineer/ Group Manager

REPORT COPIES AVAILABLE. CONTACT VEXCON.

Vexcon Lab Results – 3” Cylinder Lab # 146B16

325 psi – 0.8% Expansion
350 psi – 1.6% Expansion
500 psi – 4.4% Expansion

PACKAGING

4 GAL. UNITS

Part	Volume	Weight	Wt. %
Part A	1.37 gal.	14.55 lbs.	21.56%
Part B	0.47 gal.	4.35 lbs.	6.44%
Part C (Sand)	2.16 gal.	48.6 lbs.	72.0%
Totals	4.0 gal.	67.5 lbs.	100%

When using other containers to measure smaller volumes, the above ratios should be used.

YIELD

Available in 67.5#, 4 gallon units. This yields 0.5-0.6 cubic feet.

PHYSICAL PROPERTIES

- Color: French Gray and Concrete Gray
- Dry-Tack Free: Less than 6 hours
- Curing Time: Overnight; full curing one week
- Reactivity: 100%
- Shrinkage: Less than 1%

Please note dry time and curing time depends on air temperature and film thickness. All calculations based upon 68-77°F (20-25°C).

Low temperatures and high relative humidity will extend dry and cure times. Store material at room temperature prior to use.

HEALTH AND SAFETY

Vexcon SDS RP225 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using product, it is advisable to obtain a copy of the SDS RP225 from your distributor or by contacting Vexcon Chemicals.

CONTACT US @

Additional product information, technical assistance and customer service are available by contacting Vexcon Chemicals directly or our distributors.

- vexcon.com
- techservice@vexcon.com
- customerservice@vexcon.com
- sales@vexcon.com
- Voice: 888.839.2661
- Fax: 215.332.9997

WARRANTY

LIMITED WARRANTY: Vexcon warrants for a period of one (1) year from the date of manufacture that the goods supplied hereunder shall be of its standard quality and free of defects, and conforms to (a) Vexcon's published specifications in force on the date of acceptance by Vexcon of the order and (b) the sample which has been made available for testing by buyer prior to sale. Any claim under this warranty must be made in writing to Vexcon Chemicals within sixty (60) days after such non-conformity is first discovered. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon at its option shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon's control, this Limited Warranty IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS LIMITED WARRANTY IS ALSO IN LIEU OF ANY OTHER POSSIBLE LIABILITIES OF VEXCON, WHETHER ALLEGED TO ARISE BY AGREEMENT OR BY OPERATION OF LAW, RESPECTING THE SALE, APPLICATION, USE OR FUNCTION OF VEXCON'S PRODUCTS, INCLUDING BUT NOT LIMITED TO CLAIMS OF NEGLIGENCE, GROSS NEGLIGENCE, MISUSE, STORAGE DAMAGE, MISAPPLICATION, ACCIDENT, STRICT LIABILITY OR ANY OTHER TORT. No person is authorized by Vexcon to assume for it any other liability of any kind in connection with the sale or use of products manufactured and sold by it, and there are no oral agreements or warranties collateral to or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflicts of laws.

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