



POWERCOAT® SEISMIC GROUT

“Don’t say Epoxy- say PowerCoat”®
HIGH DURABILITY • CHEMICAL RESISTANT
100% ACTIVE

VOC Content 254 gr./liter or 2.12 #/gal – Industrial Maintenance Coating

DESCRIPTION

POWERCOAT SEISMIC GROUT is unique flexible grout system. The product provides a tough and durable grout with excellent adhesion and flexibility, as well as high impact and abrasion resistance. The Powercoat system is designed to eliminate the failure of adhesion associated with epoxy and polyurethane grouts due to moisture.

Powercoat Seismic Grout has the unique ability to deform under load thereby absorbing and dampening the effect of shock, vibration and heavy load without cracking. Under load, Powercoat Seismic Grout 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 services and including underwater applications.

BENEFITS

- Meets EPA, AIM and VOC regulations
- Provides excellent adhesion, flexibility, durability, and resistance to impact, water and abrasion
- Powercoat Seismic Grout is available in French Gray and Concrete Gray

SUGGESTED USES

- Prison Door Seals
- Machine foundations
- Bridge joint seals
- Lag bolt placement
- Crack repair
- Concrete resurfacing

APPLICATION

Clean area to receive Seismic 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. Prime surface with **Powercoat® Primer** or **Powercoat® Primer Water base** for additional adhesion. The grout is supplied in two parts, A and B, which are mixed together just prior to use. Separately mix the individual contents, with Jiffy Mixer, of each until uniform in consistency. When this is done, mix part B into part A. After thorough mechanical mixing, allow the mixed product to stand undisturbed for a 10-minute induction period. Mix in the Aggregate with a jiffy mixer and 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. Do not use below 50° F water cure will be retarded.

SPECIAL NOTES

- Powercoat Seismic Grout 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. Do not use in constant immersion applications without consulting with Vexcon Chemicals first if chemical is not on list.
- Do not apply below 40° F (5° C).
- Do not apply more than one coat without proper surface preparation including surface abrasion after 7 day full cure.
- A second coat can be applied after 6 hours and within 48 hours without abrading the surface.
- Same lot numbers should be used throughout the project. If lot numbers differ box-mix prior to use.
- If properly stored in its original sealed container, one year. Rotate your stock
- For use by professional applicators.

DURABILITY & WEARABILITY TESTING

Independent lab testing has confirmed that Vexcon’s PowerCoat Seismic Grout provides outstanding physical strength characteristics. The system’s hardness and durability far exceeds the standard levels for the product mil levels. The following are specifications on the PowerCoat® Seismic Grout 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%:	0.0 %
Flexibility 1/8” Mandrel ASTM D522 Method B:	
Cracking or loss of bond	None
Falling sand abrasion 25 L/mil min.:	>30 L/mil
Elongation ASTM D638	45%
Tensile Strength ASTM D638	292 psi

Data per DL Labs Tests Reports, DL-11875A, 11371, 11887. Reports available upon request.

YIELD

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

SPECIFICATIONS/COMPLIANCE

- Meets EPA & AIM VOC regulations
- USDA requirements for coatings for use in federally inspected meat and poultry plants
- Class A Fire Rating
- VOC Compliant: 254 gr./liter or 2.12 #/gal – Industrial Maintenance Coating

SEALANT TEST DATA – CTL

COMPRESSION TESTING OF CERTI-VEX®

POWERCOAT® SEISMIC 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

<u>4 GAL. UNITS</u>	<u>UNITS</u>	
<u>Volume</u>	<u>Wt.</u>	<u>Wt.%</u>
PART A: 1.37 gal.	14.55 lbs.	21.56%
PART B: 0.47 gal.	0.435 lbs.	6.44%
SAND: <u>2.16 gals.</u>	<u>48.6 lbs.</u>	72.0%
4.0	67.5	

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

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

HEALTH AND SAFETY

Vexcon MSDS #CP102 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 MSDS, #CP102, from your distributor or by contacting Vexcon Chemicals.

CONTACT US @

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

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