

# POWERCOAT<sup>®</sup> EPOXY FLEXIBLE JOINT SEALANT “*Don't say Epoxy- say PowerCoat*”<sup>®</sup>

**DURABLE • FLEXIBLE • CHEMICAL RESISTANT • 100% ACTIVE**

## DESCRIPTION

**POWERCOAT EPOXY FLEXIBLE JOINT SEALANT** is ideal for all horizontal and vertical joints which are not designed for movement but will have excellent flexibility to resist cracking. The product provides a tough and durable coating with excellent adhesion and flexibility, as well as high impact and abrasion resistance. When used in conjunction with one of Vexcon's high performance coatings the total system provides a high-build, sealant barrier against physical abrasion, corrosion and commonly encountered acid and alkali chemicals. It also resists solvents such as gasoline, kerosene and some alcohols. The system is ideal for use in commercial, food handling, industrial, or transportation services as well as many other applications.

PowerCoat is designed to eliminate the failure of adhesion associated with epoxy and polyurethane sealants due to moisture in concrete.

## BENEFITS

- Shaveable in 4-6 hours
- No heat required for shaving
- Provides excellent adhesion, flexibility, durability, and resistance to impact, water and abrasion
- Cures with less than 1% shrinkage or loss in film thickness
- Available in French Gray or Concrete Gray
- Can be used on horizontal or vertical joints

## APPLICATION

- Joint Preparation: Thoroughly clean dirt and laitance from joint, using one of Vexcon's surface preparation products.
- The sealant is supplied in two parts, A and B, which are mixed together just prior to use. Wire brushing and vacuuming are recommended.
- Separately mix the individual contents, with Jiffy Mixer, of each 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 before applying.
- Apply with caulking gun or other equipment designed for sealant applications or a putty knife to horizontal and vertical joints.
- Apply slightly higher than joint if desired. Excess can be shaved with a knife up to 4-6 hours depending on conditions and up to 12 hours after application to yield a flush surface.
- When complete, coat the surface with one of Vexcon's premium high performance coatings.
- The mixed material has a pot life of 2 hrs.
- Clean application equipment daily with **Certi-Vex<sup>®</sup> Equipment Cleaner**.

## APPLICATION TOP COAT

- After Joint Sealant is shaved, but before 5 days cure, the concrete can be primed with **PowerCoat Primer** then topcoated with Vexcon high performance coatings over the entire area including the joints, yielding an attractive high performing seamless floor.

## SPECIAL NOTES

- PowerCoat Epoxy Flexible Joint Sealant 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 if chemical is not on list.
- PowerCoat Epoxy Flexible Joint Sealant can be used on fresh concrete.
- If backer rod used, PowerCoat Epoxy Flexible Joint Sealant must be a minimum of 1" thick.
- Do not apply below 50°F (5°C) or above 85°F.
- A second coat can be applied after 6 hours and within 48 hours without abrading the surface.
- Do not apply more than one coat without proper surface preparation including surface abrasion after 7 day full cure.
- Recommended for all joints that are not designed for movement.
- 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, three years from date of manufacture. 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.

## SPECIFICATIONS/COMPLIANCE

- VOC Content: <250 grams/liter or <2.08 #/gal  
Meets:
  - USEPA AIM – Industrial Maintenance Coating
  - OTC – Industrial Maintenance Coating
  - LADCO – Industrial Maintenance Coating
  - Canada – Industrial Maintenance Coating
  - CARB – Industrial Maintenance Coating
  - SCAQMD Rule 1168 Architectural Sealant
- USDA requirements for coatings for use in federally inspected meat and poultry plants.
- ASTM E108: Class A Fire rating
- CSI reference: 03 64 23-Epoxy Injection Grouting, 07 90 00- Joint Protection and 09 96 00- High Performance Coatings

**COVERAGE RATES**

Apply PowerCoat Epoxy Flexible Joint Sealant in accordance with Sealant Estimating chart.

**DURABILITY & WEARABILITY TESTING**

Independent lab testing has confirmed that Vexcon’s PowerCoat System provides outstanding physical strength characteristics. The system’s hardness and durability far exceeds the standard levels for the product mil levels.

Property	Method	Result
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%:	30 day immersion	0.0 %
Flexibility 1/8” Mandrel Cracking or loss of bond	ASTM D522 Method B	None
Falling sand abrasion	ASTM D968 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.

**PACKAGING**

	4 gal. unit / mix by volume	1 gal unit / mix by volume	Weight % / mix by weight
<b>Part A</b>	3.0 gal.	0.75 gal	77%
<b>Part B</b>	1.0 gal	0.25 gal	23%

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 4-6 hours
- Curing Time Overnight; full curing one week
- Reactivity 100%
- Shrinkage Less than 1%

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 time. Store at 60-80°F prior to use.

**HEALTH & SAFETY**

Vexcon MSDS CP104 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using this Vexcon product it is advisable to obtain a copy of the MSDS from your distributor or by contacting Vexcon Chemicals.

**SEALANT ESTIMATING**

To calculate total cubic inches of joint to fill, multiply length by width by depth in inches (L x W x D). Divide that number by 231 to calculate the gallons of sealant needed.

Ex.: joint is 103 linear feet x 1/4” wide x 2.5” deep  
Multiply 103 x 12 to get inches, x .25 x 2.5 = 772.5 cubic inches  
Divide 772.5 by 231 to get 3.34 gallons needed to fill joint.

Note: One gallon = 231 cu in = 3785.412 cm<sup>3</sup>

Cubic inches of Joint divided by 231 = gallons needed to fill joint  
Contact Vexcon directly for assistance with estimation.

**LINEAR FT/GAL (LINEAR METER/GAL)**

JOINT DIMENSIONS	DEPTH 1”	DEPTH 1.5”	DEPTH 2”	DEPTH 2.5”
<b>WIDTH 1/8”</b> 0.32cm	154’ (46.9m)	102.67’ (32.3m)	77’ (23.5m)	61.6’ (18.8m)
<b>WIDTH 1/4”</b> 0.635cm	77’ (23.5m)	51.33’ (15.6m)	38.5’ (11.7m)	30.8’ (9.4m)
<b>WIDTH 3/8”</b> 0.95cm	51.33’ (15.7m)	34.22’ (7.38m)	25.67’ (7.82m)	20.53’ (6.26m)
<b>WIDTH 1/2”</b> 1.27cm	38.5’ (11.7m)	25.67’ (7.82m)	19.25’ (5.87m)	15.4’ (4.69m)
<b>WIDTH 5/8”</b> 1.59cm	30.8’ (9.39m)	20.53’ (6.26m)	15.4’ (4.69m)	12.32’ (3.76m)
<b>WIDTH 3/4”</b> 1.9cm	25.67’ (7.82m)	17.1’ (5.22m)	12.83’ (3.91m)	10.27’ (3.13m)
<b>WIDTH 1”</b> 2.54cm	19.25’ (5.87m)	12.83’ (3.91m)	9.625’ (2.93m)	7.7’ (2.35m)

**IMMERSION**

PowerCoat Epoxy Flexible Joint Sealant can be immersed in the following chemicals. Care must be taken that coverage rates are as listed above and that there are no pinholes or voids in the sealant.

CHEMICAL	30 DAYS RATING
10% Caustic (NaOH)	No Effect
25% Sodium Chloride	No Effect
Anti Freeze, Ethylene Glycol	No Effect
15% Muriatic Acid	No Effect
Water	No Effect
Calcium Chloride	No Effect
Jet Fuel	No Effect

For chemicals not listed, contact Vexcon Chemicals.

**CONTACT US @**

Additional product information, technical and customer services 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**

Vexcon warrants that the goods supplied hereunder shall be of its standard quality and shall conform in all material respects to the sample which has been made available for testing by buyer prior to sale. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon 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 OR NEGLIGENCE, GROSS NEGLIGENCE, STRICT LIABILITY OR ANY OTHER TORT. IN NO EVENT SHALL VEXCON BE LIABLE FOR PERSONAL INJURY OR PROPERTY DAMAGE, REAL OR PERSONAL, ATTRIBUTED TO ITS PRODUCTS, NOR FOR ANY EXCAVATION, REMOVAL, REAPPLICATION, DOWN TIMES, CLEANUP, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE OR FOR ANY LOSS OF PROFITS OR OTHER SPECIAL, INCIDENTAL, RESULTING, CONSEQUENTIAL OR EXEMPLARY DAMAGES. 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.