

# VERTAPOXY™

## Concrete Wall Crack Repair



### PRODUCT DESCRIPTION:

Vertapoxy™ is a two component 100% reactive epoxy system. This product is moisture insensitive and provides a high modulus while meeting specifications for ASTM C881.

### SPECIFYING INFORMATION:

Vertapoxy™ Meets ASTM specifications for type I, type II, grade III, class B, C, D, and class E

### RECOMMENDED FOR:

Bonding irregular surfaces, vertical and overhead repairs, non-sag applications

### MIXED VISCOSITY (CPS)

Gel

### GEL TIME (150 G MASS @ 70F) (MINUTES)

30-40

### BOND STRENGTH (PSI)

1,500 (min)

### HEAT DEFLECTION TEMPERATURE (DEGREES F)

120 (min)

### LINEAR COEFFICIENT OF SHRINKAGE

.005 (max)

### COMPRESSIVE YIELD (PSI @ 7 DAY CURE)

5,000 (min)

### COMPRESSIVE MODULUS (PSI)

150,000 (min)

### TENSILE STRENGTH (PSI @ 7 DAY CURE)

4,000 (min)

### ELONGATION AT BREAK (%)

1.0 (min)

### FLEXURAL STRENGTH (PSI)

11,000 (min)

### THIN FILM SET TIME (HOURS)

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### TENSILE MODULUS (PSI)

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### PEAK EXOTHERM (DEGREES F)

178

### MIX RATIO (BY VOLUME)

2:1

### COLOR (GARDNER)

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### SPECIFIC GRAVITY (MIXED)

1.76

### FLASH POINT (DEGREES F)

> 200

### V.O.C. (MIXED)

0.0

### SHELF LIFE (YEARS)

2

### PACKAGING:

1.5 gallon

3 gallon kit

15 gallon kit (Volumes Approximate)

**CHEMICAL RESISTANCE:** The Vertapoxy™ is excellent against distilled water, most inorganic acids and alkalis and moderate against alcohols or aromatic solvents.

**SURFACE PREPARATION:** The surface must be structurally sound and free of all contaminants such as grease, oil and dust. The best bonding characteristics can be achieved by sand blasting, but acid etching or scarification can also be employed. Although damp surfaces will not deter the bond, all free and standing water must be removed before application begins. Physical properties are typical values and not specifications. Please see reverse side for limitations of our liability and warranty.

### MIXING AND APPLICATION INSTRUCTIONS

**PRODUCT STORAGE:** Store all material at normal room temperature.

**SURFACE PREPARATION:** Surface preparation will vary depending on product type and usage. All concrete should be clean, dry, sound and free of all laitance and contaminants. When priming or sealing, the concrete should be properly profiled such as with a fine shot blast or equivalent preparation. When performing repairs, remove all unsound concrete before repairing.

**MIXING:** Pour or add part A and part B into a mixing vessel of appropriate size and mix thoroughly for approximately 2 minutes with a jiffy mixer/drill. Run the mixer at low speeds to minimize entrapping of air into the mix and be sure to scrape the sides and bottom of the container. For liquids, transfer to another pail and again remix. This remixed material is now ready to use.

**PRIMING:** Apply the material by brush or roller to a mil thickness of 3-5 mils.

**SEALING:** Apply the material by brush or roller to a mil thickness of 4-8 mils.

# GARON

**CRACK INJECTION:** Install injector ports at appropriate intervals using the gel to seal cracks and cement ports into place. Using a two component pressure injection pump, inject material through the ports starting at the lowest port and working upward.

**BROADCAST SYSTEM:** Apply mixed liquids and broadcast with sand of desired texture and color. Remove excess sand after cure and apply liquid topcoat to lock in the sand. Depending on the texture desired, additional coats of liquid may be applied to achieve a smooth high gloss finish.

**BINDER OF MORTAR:** Although the applicator should determine the amount of filler aggregate to add to the mortar application, a weight ratio of mixed liquids to sand of 1:3 to 1:5 will usually prove to be satisfactory.

**BONDING FRESH TO OLD CONCRETE:** Apply a thin uniform layer with brush, roller, squeegee or spray. Place the new concrete before the epoxy has had time to harden or set. If the material does set prior to application of concrete, then re-apply the epoxy bonding material. Follow the normal practice for placing the concrete.

**HIGH BUILD COATINGS:** Apply the mixed material with brush, roller or squeegee up to 1/16" and allow to cure. If air entrapment occurs while applying the coating, then use a de-aerating tool to remove air prior to the coating curing. It is often advisable to prime the substrate prior to application to avoid air migration from the substrate which can result in surface irregularities.

**BONDING IRREGULAR SURFACES:** Use the gel to bond two irregular surfaces together.

**VERTICAL AND OVERHEAD REPAIRS:** For small cracks and shallow repairs, use the gel; for larger repairs use the medium or low viscosity material in conjunction with silica and/or clay. Trowel mixture into repair area.

**CLEANUP:** Use xylene or ketone solvents.

**RESTRICTIONS:** It is best to let the area remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when



wet or contaminated; keep surface clean and dry.

**NOTICE TO BUYER:**

**DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY**

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.**