**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 @ 77º F

Initial Cure 1 - 2 hour @ 77º F

Recoat or topcoat 1 – 2 hours @ 77º F

Final Cure 24 hours @ 77º F

**LIMITATIONS:**

1. 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.
2. 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.
3. 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 50 F above dew point.
1. All new concrete must be cured for at least 30 days prior to application.
2. 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.
3. Test data based on neat resin unless otherwise noted
4. See reverse side for application instructions.
5. Physical properties are typical values and not specifications.
6. See reverse sidefor limitations of our liability and warranty.

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| **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** | 40º-90º 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 @ 70°F

 (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**