

# Dynapoxy™ EP-1200

Two-Part Epoxy Security Sealant



## SPECIFICATION DATA SHEET

### BASIC USES

- Dynapoxy™ EP-1200's outstanding adhesion to similar or dissimilar materials, in particular concrete and metal, high abrasion resistance and "tamperproof" properties make it an excellent joint sealant for high security areas of prisons and other security areas.

### MANUFACTURER

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### PRODUCT DESCRIPTION

Dynapoxy™ EP-1200 is a rigid, two-part, high-solids, high-modulus epoxy resin compound. It is especially designed as a companion or alternative product to Pecora Dynaflex™ urethane security sealant. Also, because of its high compressive strength and non-sag properties, Dynapoxy™ EP-1200 is used as a structural adhesive for vertical and overhead bonding, grouting, and for bolt embedment.

### LIMITATIONS:

Dynapoxy™ EP-1200 should not be used in active joints or in areas where it may come into contact with food. It should not be subjected to harsh chemicals such as acids or solvents and should not be applied in concrete joints less than 30-days old

- On below-grade applications.
- If rain is expected within 24 hours of application.
- On horizontal traffic bearing surfaces.
- In areas of continuous immersion.
- On frozen or frost covered surfaces or at temperatures at or below 40°F (4°C) or when temperatures are expected to drop below 40°F (4°C) within 24 hours after application.
- Where there may be hydrostatic water transfer from the backside of the substrate.

- On improperly sealed substrates that are subject to rising dampness or migrating moisture.
- Over active joints or cracks in concrete or masonry. WeatherClad Elastomeric Acrylic Wall Coating is recommended for these conditions.

### TECHNICAL DATA

**Applicable Standards:** Dynapoxy™ EP-1200 meets or exceeds ASTM C 881, Type I and III, Grade 3, Classes B & C.

**Joint Design:** Security sealants used in non-moving joints do not have a requirement related to width to depth configurations. When installing security sealants in non-moving joints, tamper resistance and tamper proof properties are improved when a greater volume of sealant is installed in the joint. In general, security sealants should be applied to a greater depth than typically recommended for a moving or dynamic joint. In joints greater than 1.5" in width, consult Pecora Technical Services for more specific guidelines

### INSTALLATION

**Surface Preparation:** Surfaces must be clean, sound and free of surface water. Remove laitance, curing compounds, coatings, oil, grease, rust, waxes and other bond-inhibiting substances.

**Joint Backing:** In deep joints where filling the joint completely would result in the use of excessive sealant, a backer rod may be installed. Use of a backer rod will provide firm backing, allowing for proper tooling of the sealant under pressure. This will ensure proper contact with bonding surfaces. A closed cell backer rod that will compress a minimum of 25% when installed will provide a firm backing

### PACKAGING

- 1.5-gallon unit (5.7 liter) including Base and Activator. Color Pack is packaged separately.

### COLOR

- Pecora Color Pack system has premeasured tint paste for 50 standard colors.
- Custom colors available upon request. Minimum 5 Color Packs.
- Standard color after mixing is Off White. If the sealant is to be painted, it is not necessary to add a Color Pack.

to achieve proper application in deep joints. Refer to joint design for further details.

### DYNAPOXY AS A JOINT FILLER

**Mixing:** Activator and base components are packaged in exact ratio for use. The addition of a Pecora universal color pack is required when using a field-tintable neutral base. Use one (1) Pecora universal color pack per 1.5-gallon unit. Extrude entire contents of color pack and mix into base along with the activator. Mix all components as supplied using an Albion Engineering model 381-G04 mixing paddle (refer to illustration below) or



comparable. Do not attempt to mix partial units and risk the probability of a partially or non-curing sealant. Thoroughly mix the activator, base,

### TYPICAL PHYSICAL PROPERTIES at 77°F (25°C), 50% RH

| Test Property                      | Value                   | Test Procedure     |
|------------------------------------|-------------------------|--------------------|
| Compression Strength (psi)         | 11,000                  | ASTM D695          |
| Hardness, Shore D, (max. 72 hours) | 70                      | ASTMC661           |
| Pot Life (minutes)                 | 75                      | Pecora Corporation |
| Viscosity                          | Heavy Paste consistency | Pecora Corporation |
| VOC Content:                       |                         |                    |
| Base (g/L)                         | 0                       | ASTM D3960         |
| Activator (g/L)                    | 0                       | ASTM D3960         |

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and colorants for (3) minutes using a slow-speed, heavy-duty drill. Stop mixing and thoroughly scrape any unmixed material from sides and bottom of pail. Continue to mix for an additional (3) minutes not exceeding a total (6) six-minute mixing time. Avoid over-mixing which can entrain air in the sealant causing bubbling and blistering.

**Application:** Do not thin with solvents or adulterate the mixed material in any way. Apply sealant to joints, using standard caulking equipment. Application life is 75 minutes at 77° F (25° C), 50% R.H. Higher temperature and/or humidity will shorten this application life. For maximum pot-life, store material in a cool, dry place prior to mixing. If warming is necessary, do not heat above 120° F(49°C)

**Tooling:** Tool immediately after application to ensure full adhesion. Tooling without a slicking agent is preferred but if conditions require one, mineral spirits is recommended. (See Caution Statement.)

### DYNAPOXY AS A SAND/MORTAR PATCHING COMPOUND

#### Epoxy Mortar Instructions:

1. Activate (1) 1.5-gallon unit of EP-1200.
2. Transfer activated EP-1200 into a 5-gallon pail.
3. Add approximately 2 gallons of sand to 1.5 gallons of activated EP-1200. The amount of sand needed to achieve a mortar consistency may vary depending on sand particle size.
4. Mix sand into activated EP-1200 using an Albion Engineering model 381-G04 mixing paddle or equivalent until a trowelable consistency is achieved.
5. Use a trowel to apply and form the patching compound as desired..

**Note:** If the mixed sealant is not applied immediately, stir occasionally to keep the center area from overheating and setting faster than the outside, or divide into smaller units to minimize the heat buildup.

**Cleaning:** Immediately remove all excess sealant and smears from surfaces adjacent to joints with mineral spirits. Also use mineral spirits for removing uncured sealant from equipment. Remove cured sealant by scraping, sandpapering, etc. (Caution: mineral spirits is flammable and toxic. Observe manufacturer's precautions.)

**Precautions:** Wear protective clothing, goggles, and/or gloves. Use with good ventilation. Avoid breathing vapors. Compound contains epoxy resin and polyamide resin. Causes irritation. May cause sensitization or other allergic responses. Avoid contact with eyes and skin.

**First Aid in case of contact:** If in eyes or on skin, flush immediately with water for at least 15 minutes and see a physician. Wash thoroughly after handling and wash clothing before reuse. Refer to Safety Data Sheet (SDS).

**IMPORTANT NOTE:** Some people are sensitive to any contact with epoxy. If a person shows any evidence of sensitivity (rash, troubled breathing, etc.) he should be permanently removed from all epoxy exposure. The effects of epoxy sensitivity do not abate with time away from exposure, but are cumulative..

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### FOR PROFESSIONAL USE ONLY. KEEP OUT OF THE REACH OF CHILDREN.

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### AVAILABILITY AND COST

Pecora products are available from stocking distributors nationwide. For the name and telephone number of your nearest representative, call the number below or visit our website at [www.pecora.com](http://www.pecora.com).

### WARRANTY

Pecora Corporation warrants its products to be free of defects. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of, any product proven to be defective when used in strict accordance with our published recommendations

and in applications considered by us as suitable for this product. The determination of eligibility for this warranty, or the choice of remedy available under this warranty, shall be made in our sole discretion and may decisions made by Pecora Corporation shall be final. This warranty is in lieu of any and all other warranties, expressed or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose and in no case will Pecora be liable for damages other than those expressly stated in this warranty, including but not limited to incidental or consequential damages.

### MAINTENANCE

Once Dynapoxy™ EP-1200 is in place and cured, it is basically maintenance free. If voids develop where Dynapoxy™ EP-1200 meets concrete or within the Dynapoxy™ EP-1200 itself, rake out the void, clean with vacuum or compressed air and refill with Dynapoxy™ EP-1200. As with any joint filler, repairs will likely be needed if concrete shrinkage occurs after Dynapoxy™ EP-1200 is installed. This is a natural occurrence and not a sealant failure.

### TECHNICAL SERVICES

Pecora representatives are available to assist you in selecting an appropriate product and to provide on-site application instructions or to conduct jobsite inspections. For further assistance call the Technical Service Department at 800-523-6688.

### FILING SYSTEMS

#### CSI MasterFormat Designations:

- 07 92 00 Joint Sealants
- 07 92 16 Rigid Joint Sealants