

Dynapoxy™ EP-425

Specification Data Sheet



Multi-Purpose, High Strength, Non-Shrink, Epoxy Patching Mortar

I. BASIC USES

- Patching concrete on bridge decks, parking decks, floors, columns and beams
- Repairing spalled areas
- Plant maintenance

2. MANUFACTURER

Pecora Corporation
165 Wambold Road
Harleysville, PA 19438
Phone: 215-723-6051
800-523-6688
Fax: 215-721-0286
Website: www.pecora.com

3. PRODUCT DESCRIPTION

Pecora® Dynapoxy™ EP-425 is a three component, 100% solids, multi-purpose, high strength, non-shrink epoxy patching mortar. The system combines a high quality epoxy resin and curing agent with an engineered blend of graded aggregates. Dynapoxy EP-425 is specifically designed to provide superior patching while demonstrating similar physical characteristics to the concrete substrate.

Advantages:

- Chemically bonds to concrete
- Low modulus
- Durable
- High tensile, compressive & early strengths
- Withstands freeze/thaw cycles
- Semi-rigid for shock absorption
- Compatible with Type III epoxy overlays
- Provides textured bonding profile

Limitations:

- Substrate temperature should be above 40°F (5°C).
- Minimum age of hardened concrete must be 5-7 days depending on curing and drying conditions.

PACKAGING/YIELD

- .5 ft³ kit - 1 gallon container Part A and 1 gallon container Part B plus aggregate all in a 5 gal pail
- Yield - .5ft³ (.014m³) of patching mortar

4. TECHNICAL DATA

Applicable standards: Dynapoxy EP-425 meets or exceeds the requirements of ASTM C-881, Type I, Grade I

5. INSTALLATION

Surface Preparation: Saw cut approx. ½ in. (1.2 cm) deep around perimeter of area to be patched and remove all deteriorated and unsound concrete with chipping hammers not to exceed 30#. Thoroughly clean patch area and exposed reinforcing steel by mechanical means to near white metal finish. Vacuum all dust and loose particles from area.

Mixing: Condition material to 65°F-85°F (18°-29°C) before using. Pre-mix Part A and Part B. Pour components A and B into pail and mix thoroughly for 3 minutes with a Jiffy type mixer on low-speed (300 rpm) until material is of uniform consistency. Keep mixer at bottom of pail to avoid introducing air. Slowly add the enclosed aggregate to mixed liquid components. Mix until all aggregate is wetted out. Mix only the quantity that can be applied within its gel time of 20 minutes.

Application: Immediately place patch. Set screeds or float to desired level, strike off, thoroughly compact and finish the surface.

Cleaning: Uncured material can be removed with citrus cleaner or other approved solvent. Cured material can only be removed mechanically.

Storage Life: 24 months from date of manufacture when stored in original unopened containers at temperatures between 40°-95°F (5°-35°C). Condition material to 65°F-85°F (18°-29°C) before using.

Precautions: Part A of three-part Dynapoxy EP-425 is an irritant. Part B of two-part Dynapoxy EP-425 is corrosive. Product is a strong sensitizer. Use of safety goggles and chemical resistant gloves are recommended. Use of a NIOSH/OSHA organic vapor respirator is recommended if ventilation is inadequate. Avoid breathing vapors. Avoid skin contact. If Eye contact occurs, flush immediately with water for at least 15 minutes. Contact physician immediately. If

TYPICAL PHYSICAL PROPERTIES - RESIN

Test Property	Test Value	Test Procedure
Compressive Modulus (cps)	100,000	ASTM D-695 (130,000 cps max.)
Gel Time (min.)	20	ASTM C-881
Tensile Strength (psi)	2,500	ASTM D-638
Tensile Elongation (%)	40	ASTM D-638 (30% min.)
Bond Strength (14-day cure)	1,700 psi	ASTM C-882 (1,500 psi min.)
Absorption	0.50%	ASTM D-570 (1.0% max.)
Brookfield Visc. RV3 @50 rpm	1,500 cps	ASTM C-881 (2,000 cps max.)
Shrinkage	Pass	ASTM C-883
Thermal Compatibility	Pass	ASTM C-884
Chloride Ion Permeability	0.9 coulombs	AASHTO T-277
VOC (g/L)	0	EPA Method 24

GROUT PROPERTIES

Sand to Resin – 3.25 to 1 by volume

Compressive Strength 3 hrs	1,500 psi	ASTM C-5792 ¹
Compressive Strength 24 hrs	6,100 psi	ASTM C-5792 ¹
Compressive Strength 7 days	7,100 psi	ASTM C-5792 ¹

¹C-579 Method B with Plastic Inserts

trouble breathing occurs, remove person to fresh air. If skin contact occurs, remove any contaminated clothing. Remove epoxy immediately with a dry cloth or paper towel. Solvents should not be used as they carry the irritant into the skin. Wash skin thoroughly with soap and water.

Cured epoxy resins are innocuous.

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

6. 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.

7. LIMITED 1 YEAR 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 any 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.

8. TECHNICAL SERVICES

Local Pecora representatives are available to assist you in selecting an appropriate product and to provide on-site application instructions, or to conduct job-site inspections. For further information and assistance, please call our Technical Service department at 215-723-6051 or 800-523-6688.

9. FILING SYSTEMS

- Sweet's Catalog File: www.sweets.com
- General Building
 - 03010 Maintenance of Concrete
 - 03930 Concrete Rehabilitation

