

# Dynapoxy™ Low-Mod Epoxy

## Specification Data Sheet

Low Modulus, Low Viscosity Epoxy Bonding Agent



### I. BASIC USES

- Bonding skid-resistant overlays to bridges and elevated slabs
- Patching concrete as epoxy mortar

### 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™ Low-Mod Epoxy is a solvent-free, moisture insensitive, 100% solids, low modulus, two component bonding agent. Excellent for use as binder for concrete skid-resistant overlays on bridges and elevated slabs.

#### Advantages:

- Meets AASHTO-AGC-ARTBA
- Meets ASTM C-881-90, Type III, Classes B&C
- Excellent bond strength
- Low modulus
- Low Viscosity
- High Early Strength
- Easy to Mix – 1:1 Ratio
- Moisture Insensitive
- Non-Flammable

#### Limitations:

- Do not thin with solvents.
- Minimum age of concrete must be 28 days prior to applying Dynapoxy Low-Mod Epoxy as an overlay.
- Minimum age of concrete must be 5-7 days, depending on curing and drying conditions, prior to applying Dynapoxy Low-Mod Epoxy as a mortar.
- Dynapoxy Low-Mod Epoxy is a vapor barrier after curing.

### PACKAGING

- 10 Gallon Kit (37.8L) – 5 gallon pail Part A and 5 gallon pail Part B

### 4. COVERAGE

#### MIN. EPOXY & AGGREGATE COVERAGE RATES

	Epoxy Rate	Aggregate Rate
COURSE 1	1 gal/40 sq ft min. (1L/m <sup>2</sup> )	10 lbs/sq yd (5.4 kg/ m <sup>2</sup> )
COURSE 2	1 gal/20 sq ft min. (2L/m <sup>2</sup> )	14 lbs/sq yd (7.6 kg/ m <sup>2</sup> )

#### MORTAR COVERAGE RATES

MIXED EPOXY/AGGREGATE RATE @3.5/1.0 Sand:Binder by volume  
1 GAL/808 cu in (3.8L/317 cu cm)

### 5. TECHNICAL DATA

**Applicable standards:** Dynapoxy Low-Mod Epoxy meets or exceeds the requirements of ASTM –C-881 Type III, Grade 2, Classes B&C and USDA specifications for use in food processing areas.

#### TYPICAL PHYSICAL PROPERTIES - RESIN

Test Property	Test Value	Test Procedure
Compressive Modulus	64,820	ASTM D-695 (130,000max.)
Tensile Strength	2,610 psi	ASTM D-638
Tensile Elongation	49%	ASTM D-638 (30% min.)
Bond Strength (14 day cure)	3,470 psi	ASTM C-882 (1,500 psi min.)
Absorption	0.19%	ASTM D-570 (1.0% max.)
Gel Time	30 minutes (Class B)	ASTM C-881 (30 minutes min.)
Brookfield Visc. RV3 @20 rpm	4000 cps	ASTM C-881 (100,000 cps max.)
Shore D Hardness	69	ASTM D-2240
Shrinkage	Pass	ASTM C-883
Thermal Compatibility	Pass	ASTM C-884
Chloride Ion Permeability	0.9 coulombs	AASHTO T-277
VOC g/L	<50	EPA Method 24

#### GROUT PROPERTIES

Sand to Resin – 3.5:1 by volume

Compressive Strength 3 hrs	1100 psi	ASTM C-579 <sup>1</sup>
Compressive Strength 24 hrs	7500 psi	ASTM C-579 <sup>1</sup>
Compressive Strength 48 hrs (Moist Cure)	7000 psi	ASTM C-579 <sup>1</sup>

<sup>1</sup>C-579 Method B with Plastic Inserts

## 6. INSTALLATION

**Surface Preparation:** Repair delaminations, potholes and cracks with Dynapoxy EP-425. Surface should be clean and dry. Clean surface by shotblasting or other mechanical means to remove all contaminants. Remove dust and debris by blowing off with oil-free compressed air.

**Mixing:** Mechanically mix Part A with Part B at 1:1 by volume with Jiffy type mixer and low speed variable drill @300 rpm for a minimum of 3 minutes. Mix only the quantity that can be used within its gel time.

**Application:** Apply neat Dynapoxy Low-Mod Epoxy by notched squeegee at the specified rate. Broadcast select aggregate to refusal. The aggregate should be angular grained silica sand or basalt having less than 0.2% moisture and free of dirt, clay, etc. The silica sand or basalt should have a minimum MOHS scale hardness of 7 unless otherwise approved. After initial cure of first course, remove excess aggregate. Do not open to traffic. Apply second course of epoxy and aggregate. Remove excess aggregate. Allow to cure following the table at the right. Open to traffic.

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

**Shelf Life:** 24 months from date of manufacture when stored in original unopened containers.

## Minimum Curing Times:

	Average Temperatures of Overlay Components & Substrate					
	60-64°F 16-18°C	65-69°F 19-21°C	70-74°F 22-23°C	75-79°F 24-26°C	80-84°F 27-29°C	85+°F 30+°C
Min. Cure Time COURSE 1	4 hrs	3 hrs	2.5 hrs	2 hrs	1.5 hrs	1 hrs
Min. Cure Time COURSE 2	5-6 hrs	5 hrs	4 hrs	3 hrs	3 hrs	3 hrs

**Precautions:** Part A of two-part Dynapoxy Low-Mod Epoxy is an irritant. Part B of two-part Dynapoxy Low-Mod Epoxy is corrosive. 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 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.**

## 7. 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).

## 8. 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.

## 9. TECHNICAL SERVICES

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.

## 10. FILING SYSTEMS

<http://www.4specs.com>  
03 01 00 Maintenance of Concrete  
03 93 00 Concrete Rehabilitation

