



# ChemMasters®

## DuraPatch EPX

Epoxy/Quartz Aggregate  
Resurfacing and Repair Mortar

SPECIALTY CONSTRUCTION PRODUCTS

### P R O D U C T      D A T A

#### DESCRIPTION

**DuraPatch EPX** is a specially formulated, three-component, 100% solids epoxy patching system for resurfacing and repair of concrete substrates. **DuraPatch EPX** contains a quartz aggregate blend for heavy duty, industrial floors.

#### USES

- Patching interior or exterior, horizontal concrete
- Resurfacing of heavy duty industrial and commercial facility floors
- Repair of deteriorated joints
- Rapid repairs of loading docks and high traffic aisles
- Areas where high abrasion resistance is required
- Thin or thick repairs under forklift, pallet jack or other hard wheeled traffic

#### ADVANTAGES

- Very high early strengths and rapid curing cycle for minimal downtime
- Excellent bond strength at depths from 3/16 inch to full depth
- 100% solids, VOC compliant system, USDA approved
- Excellent chemical resistance
- Superior shear bond and tensile strengths
- No shrinkage

#### Packaging Product Number

Part A Resin	73 fluid oz/ gal can	F2110.05
Part B Hardener	24 fluid oz/qt can	
Part C Aggregate	40 lb bag	

#### TECHNICAL DATA

#### Estimating Guide

Unit Yield 0.35 ft<sup>3</sup>  
Coverage 17 ft<sup>2</sup> @ 1/4 inch

#### Test Data

Pot Life @ 70°C (21°C)	20 minutes
ASTM D695 Compressive Strength 1 day 7 days	7500 psi (51.71 MPa) 12000 psi (82.74 MPa)
ASTM C307 Tensile Strength	7 days 1450 psi (9.99 MPa)
ASTM C348 Flexural Strength	7 days 3500 psi (82.74 MPa)
ASTM C882 Shear Bond Strength	7 days 2500 psi (82.74 MPa)
Note: Strength tests were run at 72°F (22°C)	

#### DIRECTIONS

**SURFACE PREPARATION:** Concrete to be repaired should be a minimum of twenty-eight days old. The area to be repaired should be thoroughly cleaned. Remove any weak, unsound or cracked concrete. All oil, grease, dirt, curing or sealing compounds and other contaminants that might interfere with bond must be removed. Surface area to be repaired should be shot or sand blasted, scabbled or scarified to obtain a 1/8 inch surface profile. Remove any dust or residue using a vacuum or oil-free compressed air.

**PRIMING:** Prime surfaces to be repaired with **Duraguard 100** at a rate of 200 square feet per gallon. Follow the mixing and application directions on **Duraguard 100** technical data sheet. Do not allow primer to dry prior to mortar application.

**MIXING:** Mechanical blending, using a heavy duty, high RPM drill and mixing paddle or a paddle type mortar mixer, is the recommended method. Proper mixing is critical to a successful project.

Mix all of the Part A Resin and Part B Hardener in the pail provided for two minutes. Add the Part C Aggregate and mix until aggregate is well coated and uniform in appearance. Do not mix more material than can be placed within the 20 minute pot life.



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**APPLICATION:** Spread mixed epoxy mortar into area to be repaired. Carefully compact material, taking care to fill all voids and maintaining full contact with substrate. In large areas use a concrete come-along or screed box to spread the mixed material evenly to grade. Mortar should be trowel finished by hand or machine to produce a smooth, nonporous surface.

**CURING:** **DuraPatch EPX** is self-curing. For improved chemical resistance or appearance, **DuraPatch EPX** may be coated with **Duraguard 310 CRU**, chemical resistant urethane, in clear or colors.

#### **CLEANUP**

Before the mixed material sets, clean tools and equipment with xylene or xylol.

#### **STORAGE**

Store tightly sealed containers in cool, dry place away from direct sunlight and heat sources. Shelf life of unopened containers is one year from date of manufacture.

#### **LIMITATIONS**

- Do not thin **DuraPatch EPX**. Adding solvents will prevent proper cure.
- **DuraPatch EPX** is not intended for use when concrete surface temperatures are below 50°F (10°C).
- Condition **DuraPatch EPX** units for 24 hours before placement at 60° to 70°F (15° to 21°C).

#### **Precautions**

**Part A. WARNING:** Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Part B. Danger:** Harmful if swallowed. Harmful if inhaled. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects. **Precautionary Statements:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Part C. WARNING:** Suspected of causing cancer. May cause damage to lungs through prolonged or repeated exposure if inhaled. Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection.

Keep out of reach of children.

#### **This Product is Formulated and Labeled for Industrial and Commercial Use Only**

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT PRODUCT & SAFETY DATA SHEETS AND PACKAGE LABEL FOR THIS PRODUCT. We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.