



ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

DURAPATCH METALLIC

EPOXY BASED METALLIC
RESURFACING & PATCHING MORTAR

P R O D U C T D A T A

DESCRIPTION

DuraPatch Metallic is a specially formulated, three-component, 100% solids epoxy systems for resurfacing and repair of concrete substrates. DuraPatch Metallic contains an iron aggregate blend for heavy duty, industrial floors where impact loading and abrasion resistance are of prime importance.

USES

- Resurfacing of industrial, commercial and manufacturing facility floors
- Repair of deteriorated joints, rail beds, AGV guide tracks, floors topped with metallic dry shake floor hardeners or heavy duty toppings
- Reworking and installing armor joints
- Repairing areas where high impact and abrasion resistance are required

ADVANTAGES

- Very high early strengths and rapid curing cycle for minimal downtime
- 100% solids, VOC compliant system, USDA approved
- Excellent option for repair of areas subject to chemical attack
- Superior shear bond and tensile strengths, no shrinkage

PROPERTIES

Pot Life	@ 70°F (21°C)	20 minutes
Compressive Strength (ASTM D 695)		
1 day	7,500 psi	51.71 MPa
7 days	12,000 psi	82.74 MPa
Tensile Strength (ASTM C 307)		
7 days	1,450 psi	9.99 MPa
Flexural Strength (ASTM C 348)		
7 days	3,500 psi	82.74 MPa
Shear Bond Strength (ASTM C 882)		
7 days	2,500 psi	82.74 MPa

Note: Above tests were run at 72°F (22°C)

ESTIMATING GUIDE

Unit yield	0.35 Ft ³	0.01 M ³
Coverage	16.8 Ft ² @ 1/4"	1.6 M ² @ 6 mm

PACKAGING

A 5 gallon (18.9 L) pail containing the following components

Part A Resin	1 gallon	3.8 L
Part B Hardener	1 pint	0.5 L
Part C Aggregate	50 pounds	22.7 Kg

DIRECTIONS

Concrete to be repaired must be a minimum of twenty-eight days old. The area to be repaired should be thoroughly cleaned, removing 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 (0.32 cm) 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 mixing and application directions on Duraguard 100 data sheet. Do not allow primer to dry prior to mortar application. For best bond, the primer should be tacky when the Durapatch Metallic is installed.

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 trowelled by hand or machine to produce a smooth, nonporous surface.

CURING

DuraPatch Metallic is self-curing. For improved chemical resistance or appearance, DuraPatch Metallic 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 (Xylol).

LIMITATIONS

- Do not thin DuraPatch Metallic, solvents prevent proper cure.
- DuraPatch Metallic is not intended for use when concrete surface temperatures are below 50°F (10°C)
- DuraPatch Metallic has a dark metallic gray appearance.
- Condition DuraPatch Metallic units for 24 hours before placement at 60°-70°F (15°-21°C)

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.

CAUTIONS

CORROSIVE LIQUID: Corrosive to eyes. Causes skin irritation, sensitization or chemical burns. Respiratory tract irritant. Use with adequate ventilation. Do not take internally. 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 MATERIAL SAFETY DATA SHEET 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.