



**american coating technologies**  
www.amcoating.com

# Product Technical Data

## AM 120 Acid Resistant Epoxy Mortar Patch Kit/Resurfacer

### Product Description

AM 120 is a three component 100% solids epoxy mortar designed for applications where splash and spills of dilute acids and chemicals occur.

### Recommended For

Recommended for heavy traffic areas, chemical troughs, curbs, tanks, and chemical spill areas.

### Not Recommended For

Immersion applications for all acids and chemicals.

### Solids By Weight:

100%

### Volatile Organic Content:

Zero pounds per gallon.

### Standard Colors:

Light gray, red, dark gray, and natural.

### Recommended Thickness:

1/8" to 1/4"

### Coverage Per Unit:

18.7 sq. ft. @ 1/4" and 37.4 sq. ft. @ 1/8"

### Packaging

1/4 unit .095 (approx)  
Unit .39 (approx)  
bulk unit 1.85 (approx)  
\*UNIT= 6.80# part A, 2.65# part B, 44# aggregate.  
BULK= 34.0# part A, 13.25# part B, 200# aggregate.  
(all weights approximate)

### Cubic Feet

### Mix Ratio:

\*UNIT= 0.73 gallons part A to 0.31 gallons part B plus 44# aggregate (weight and volumes approximate)

### Shelf Life:

2 years in unopened containers

### Abrasion Resistance:

Excellent

### Viscosity:

Part A= 950-1,250 cps, Part B= 200-275 cps

### Dot Classifications:

Part A&C "not regulated"  
Part B "CORROSIVE LIQUID N.O.S., 8, UN-1760,PGIII"

### Flexural Strength:

12,100 psi @ ASTM D790

### Compressive Strength:

10,375 psi @ ASTM D695

### Tensile Strength:

7,875 psi @ ASTM D638

### Ultimate Elongation:

6.59%

### Impact Resistance:

Excellent

### Heat Deflection Temp.:

144.5 degrees F @ ASTM D648

### Weathering:

Good (chalks)

### Cure Schedule: (70°)

Pot life (.39 cu. ft. mix)	30-40 minutes
Recoat or topcoat	6-7 hours
Light foot traffic	12-14 hours
Full cure (heavy traffic)	2-7 days

### Application Temperature:

50-90 degrees F

### Chemical Resistance:

Reagent	Rating
Xylene	C
1,1,1 trichloroethane	C
MEK	A
Methanol	A
Ethyl alcohol	B
Skydrol	B
10% sodium hydroxide	D
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	A
10% HC1 (aq)	C
5% acetic acid	B

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

### Primer:

None required

### Topcoat:

None required. For increased performance and reduced porosity, topcoat with NP94 and NP95

### Limitations:

Color stability may be affected by environmental conditions such as high humidity or chemical exposure.

Product is not UV color stable and may discolor if exposed to lighting such as sodium vapor lights.

Colors may vary from batch to batch due to variations in the silica filler.

Mortar colors are not from our standard color chart.

Substrate temperature must be 5°F above dew point.

For chemical exposure areas, we recommend a suitable topcoat to reduce porosity and chemical migration.

All new concrete must be cured for at least 30 days prior to application.

Test data based on neat resin.

Physical properties are typical values and not specifications.

See reverse side for application instructions.

See reverse side for limitations of our liability and warranty.

## AM 120 Instructions:

**1) PRODUCT STORAGE:** Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be above 55°F to prevent product crystallization.

**2) SURFACE PREPARATION:** All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. We recommend that an aggressive shot blast be performed prior to the application of this product. A less adequate method would be acid etching, but the etch should properly profile the substrate. All edges and around columns or beams should be mechanically scarified. All termination points should not be feather edged, but should be saw cut with the termination ending at the saw cut. All large cracks should be V cut and filled with an appropriate crack filler. All expansion joints should be filled with an appropriate joint filler. When overlaying an expansion joint, a single saw cut through the epoxy overlay will prevent random fracturing. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

**3) PRIMER:** No primer is necessary. This material is self priming. However, any suitable primer can be used.

**4) PRODUCT MIXING:** It is important that the liquids be mixed together first. Mix the liquids in an oversized container thoroughly and until streak free. After the liquids are thoroughly mixed, add in the aggregate. Mix in the aggregate with slow speed mixing equipment such as a jiffy mixer or rotating bucket/stationary mixing blade assembly. It is equally important that enough time is spent mixing in the aggregate to insure that the aggregate is thoroughly wetted out. No induction time is necessary. Improper mixing may result in product failure.

**5) PRODUCT APPLICATION:** Apply the mixed material at 1/8 to 1/4 inch thickness. Apply the material with a hand trowel or other suitable application equipment. Do not over-trowel the material as this may cause isolated blisters to form. Maintain temperatures within the recommended ranges during the application and curing process.

**6) RECOAT OR TOPCOATING:** No recoating or topcoating is necessary. However, if you opt to topcoat the applied mortar, allow it to cure before topcoating. Many epoxies and urethanes can be used. Contact your sales representatives for suitable topcoat selections.

**7) CLEANUP:** Use xylol

**8) FLOOR CLEANING:** Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

**9) RESTRICTIONS:** Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

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### NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

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