

MA-250 Concrete Quick Fix: Description

MA-250 consists of a two component polymer packaged in a 300ml x 300ml dual cartridge system with a 3/8" x 40 element static mixing nozzle, retainer nut and flow control valve.

Recommended for:

Industrial repairing of spalled concrete, holes, cracks and thresholds or uneven concrete slabs.

Not recommended for:

Expansion joints

Solids by weight

Nearly 100% cured

Volatile organic content

5.5 grams per liter cured

Standard colors

Gray colored when mixed and cured. The gray color will not develop until the curing process takes place.

Recommended thickness

The MA-250 polymer can be applied at variable thicknesses with the use of any dry sand aggregate.

Coverage per unit

Coverage is dependent on hole size and amount of aggregate sand used. One cartridge set will repair approximately 100 feet of 1/4" x 1/4" cracks in concrete floor.

Packaging

300ml x 300ml

Cubic Inches

36 (approx)

Packaged as a dual cartridge system with two 300ml cartridges per set. Sold in packages of six sets per box.

Mix ratio

The mix ratio is 1:1 by volume

Shelf life

1 year in unopened containers

Shore D hardness

71

Tensile strength

4,500 psi

Elongation

5 -6%

Impact resistance

Excellent

Abrasion resistance

Excellent

Compressive strength

4,400 (as a slurry with aggregate sand)

Bond strength

535 psi (concrete failure)

DOT classification

Part B "not regulated"

Part A "not regulated"

Viscosity

Less than 30cps typical

Cure schedule

Pot life (100 gram mass).....1-4 min @70°F

Recoat or topcoat.....1 hour @ 70°F

Light foot traffic.....10-20 min @70°F

Heavy traffic.....1 hour @ 70°F

Application temperature

20-90°F (lower temperatures will require additional cure time)

Primer

For patch work, use the liquid as dispensed from the dual cartridge system with static mixing nozzle. This will allow for greater penetration into the concrete

Topcoat

Non required. However many types of products can be used as coatings or overlays for the area that has been patched

LIMITATIONS:

DO NOT POINT TUBES UPWARD AFTER THE MIXING NOZZLE HAS BEEN ATTACHED AND PRODUCT HAS BEEN DISPENSED AS THIS MAY CAUSE MATERIAL TO FLOW BACK INTO THE TUBES AND CAUSE CLOGGING OR GELATION.

Because of the quick cure time for this product, it is best to work with one small area at a time. If the material is allowed to stand for more than 1-2 minutes after initial use, then the material in the static mixing nozzle will cure. If the material in the mixing nozzle is allowed to cure, then the nozzle must be removed and a new nozzle attached. The material in the individual tubes are unaffected by the curing of the product in the nozzle.

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

Product may discolor if exposed to certain types of light such as sodium vapor lighting.

Final cured product colors may vary from batch to batch and be influenced by silica aggregate when used.

Substrate temperature must be 5° F above dew point.

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

When applying material in cold areas, make sure the surface is clean and dry. Also, it is best to keep the material and aggregate sand at normal room temperature.

See reverse side for application instructions.

Test data based on neat resin unless otherwise noted.

Physical properties are typical values and not specifications.

See reverse side for limitations of our liability and warranty.

MIXING AND APPLICATION INSTRUCTIONS (MA-250)

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. For repair of spalled concrete, a stiff wire brush can be used to remove all loose concrete. After wire brushing the spalled area, remove all loose dust and debris with an industrial vacuum.

3) **PRIMER:** The material is self-priming. It is beneficial to discard a portion at the beginning to avoid unmixed material being used.

4) **PRODUCT MIXING:** The product is mixed as it spirals its way through the static mixing tip.

5) **PRODUCT APPLICATION:**

Assemble tube set, nozzle, end cap, flow control valve, and applicator tool as well as wire brush, trowel and aggregate sand. **Never point a tube set either during assembly or during application toward eyes or body as gun pressure can cause material to eject with force for several feet.**

To assemble, hold tubes with tip facing upward. First, remove protective cap from tube set. Next, remove the two end caps from each tube. Place the control valve onto the end of the tube and place the static mix nozzle over the tube set ends. Finally, slip the screw collar over the tip and tighten on the tube set and then place the tube set into the tube applicator.

Apply a thin layer of the mixed liquids from the cartridge set onto the concrete. For larger areas, it may be beneficial to use a small brush to spread the liquids to evenly cover the repair area.

Sprinkle dry sand onto the repair area until the level of sand fills the hole and levels the repair area until level with rest of the floor surface (left). Then saturate the sand with the liquid. Reapply more sand and liquid as needed until the area is built up level to floor (right)

Finally, trowel the floor to smooth out the area and remove any excess material. Allow the material to cure for ten to twenty minutes before foot traffic. Immediately after you are through using the liquids from the tube set, remove the static nozzle and place the end caps back on each tube as this will allow the use of the tubes for later repairs. For heavy equipment such as fork trucks, allow the material to cure for a half hour to an hour before using area that has been patched.

Limitations on Our Warranty

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Listed physical properties are typical and should not be construed as specifications. No warranty is made, expressed or implied, regarding such other information, the data on which it is based, or the results you will obtain from its use. No warranty is made, expressed or implied that our product shall be fit for any particular purpose. No warranty is made that the use of such information or our product will not infringe upon any patent. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Before using, read the material safety data sheet and follow all precautions.