



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

# Product Technical Data

## AM 343 100% Solids Concrete Quick Fix

### Product Description

AM 343 consists of a two component polymer packaged in a 300mlx300ml 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 NP343 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 a concrete floor.

### Packaging

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

### Cubic Inches

36 (approx.)

### 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: (70°F)

Pot life (100 gram mass)	15-20 minutes @ 700 F
Recoat or topcoat	1 hour @ 70 degrees F
Light foot traffic	10-20 minutes @ 70 degrees F
Full cure (heavy traffic)	1 hour @ 70 degrees F

### Application Temperature:

20-90 degrees 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:

None 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 the silica aggregate when used.

Substrate temperature must be 50 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.

## AM 343 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 550 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.

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