



american coating technologies
www.amcoating.com

AM 256 Acid/Chemical Resistant Novolac Epoxy Clear Coating

Product Description

AM 256 is a two component 97% solids novolac clear coating that can be used either as a coating or filled with paint chips, marble chips, and colored sand mixtures to provide an infinite array of color schemes or patterns. This product is suitable for medium to high build applications.

Solids By Weight:

97% (+/- 1%)

Solids By Volume:

96% (+/- 1%)

Volatile Organic Content:

<0.40 pounds per gallon

Colors Available:

Clear- gardner color 2-3

Recommended Film Thickness:

16-18 mils

Coverage Per Gallon:

90-100 square feet per gallon @ 16-18 mils

Packaging Information:

1 gallon kit (.60 gallons part A and .40 gallons part B; 5 gallon kits (3.0 gallons part A and 2.0 gallons part B) (volumes approximate)

Mix Ratio:

5.8 pounds (.60 gallons) part A to 3.45 (.40 gallons) part B (volumes approximate)

Shelf Life:

1 year in unopened containers

Finish Characteristics:

Gloss (>70 at 60 degrees @ Erichsen glossmeter)

Flexural Strength:

10,120 psi @ ASTM D790

Compressive Strength:

9,440 psi @ ASTM D695 – 1/2" x 1/2" bars

Tensile Strength:

6,550 psi @ ASTM D638

Adhesion:

400 psi @ elcometer (concrete failure, no delamination)

Ultimate Elongation:

2.9%

Hardness:

Shore D = 82

Gardner Variable Impactor:

50 inch pounds direct – passed

Abrasion Resistance:

Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 27 mg loss

Viscosity:

Mixed = 700-1000 cps (typical)

Dot Classifications:

Part A "not regulated"
Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII"

Cure Schedule: (70° F)

Pot life (1 1/2 gallon volume)	30-40 minutes
tack free (dry to touch)	8-12 hours
Recoat or topcoat	14-16 hours
Light foot traffic	24 hours
Full cure (heavy traffic)	2-7 days

Application Temperature:

50-90 degrees F with relative humidity below 85% for best results.

Chemical Resistance:

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

Recommended For

Recommended for chemical spill areas, troughs, curbs, and tanks. This product has exceptional chemical resistance and good color clarity.

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 (optional AM257)

Topcoat:

AM321/324 colored aliphatic urethanes can be used for increased UV stability.

Limitations:

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

Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.

This product is not UV color stable and may discolor. Exposure to lighting such as sodium vapor lights may cause discolorations.

Substrate temperature must be 5°F above dew point.

For best results, apply with a 1/4" nap roller.

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

Apply a suitable primer before using this product.

Do not expose this product to water until fully cured.

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 256 Instructions:

- 1) PRODUCT STORAGE:** Store product in an area as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degrees F. Low temperatures or great temperature fluctuations may cause product crystallization.
- 2) SURFACE PREPARATION:** The most suitable preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil, and laitance must be removed to assure a trouble free bond to the substrate. 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) PRODUCT MIXING:** This product has a mix ratio of 5.8# part A to 3.45# part B. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate. Improper mixing may result in product failure.
- 4) PRIMING:** A suitable primer should be used before applying this product. See the front side of this technical data for primer information. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.
- 5) PRODUCT APPLICATION:** The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating. This product can be used with various colored sand in a broadcast system or other suitable aggregate can be used in conjunction with this product to achieve a variety of color and application patterns. Contact your sales representative for details as necessary.
- 6) RECOAT OR TOPCOATING:** If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film, or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. A standard type detergent cleaner can be used to remove any blush. Multiple coats of this product are compatible.
- 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.

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

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such 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 MERCHANTABILITY OR 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. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.**