



american coating technologies
www.amcoating.com

AM 100LVP High Build Epoxy Primer

Product Description

AM100LVP is a two component 93% (+/- 1%) solids epoxy colored coating designed for applications where a high solids primer is needed before applying high solids or 100% solids topcoats for build coats over concrete.

Solids By Weight:

93% (+/- 1%)

Solids By Volume:

85% (+/-2%)

Volatile Organic Content:

Part A= .14#/gallon, part B= 2.1#/gallon
Mixed= .79#/gallon

Standard Colors:

Off white, light gray, medium gray, tile red, beige

Other Colors Also Available:

Dark gray, charcoal gray, brown, tan, light blue, and green.
Special colors are available upon request.

Recommended Film Thickness:

6-12 mils

Coverage Per Gallon:

133-267 square feet per gallon @ 6-12 mils

Packaging Information:

3-gallon kit (volume approximate) and 15 gallon kits (volume approximate)

Mix Ratio:

12 pounds (1 gallon) part A to 4.05 pounds (.50 gallons) part B (volumes approx.) (Standard colors)

Shelf Life:

1 year in unopened containers

Finish Characteristics:

Gloss (60 at 60 degrees @ glossmeter)

Abrasion Resistance:

Taber adrasor CS-17 calibrate wheel with 1000 gram total load and 500 cycles = 45 mg loss

Adhesion:

430 psi @ elcometer (concrete failure, no delamination)

Viscosity:

Mixed= 500-800 cps (typical, most colors)

Dot Classifications:

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

Flexural Strength:

9,300 psi @ ASTM D790- 1/2"x1/2" bars span 4"

Yield Compressive Strength:

7,100 psi @ ASTM D695 - 1/2"x1/2" bars

Tensile Strength:

6,000 psi @ ASTM D638 - testing dimensions F=2.25", W=0.500", T= 0.125", D=4.5" and rate= 0.2"/minute

Gardner Variable Impactor:

50 inch pounds direct - passed

Ultimate Elongation:

7.5%

Hardness:

Shore D= 80

Cure Schedule: (70°)

Pot life - 1 1/2 gallon volume 40-55 minutes
Tack free (dry to touch) 6-9 hours
Recoat or topcoat 10-14 hours
Light foot traffic 12-16 hours
Full cure (heavy traffic) 2-7 days

Application Temperature:

60-90 degrees F with relative humidity below 85% for best results

Chemical Resistance:

Reagent	Rating
Xylene	C
1,1,1 trichloroethane	C
MEK	A
Methanol	A
Ethyl alcohol	B

Recommended For

Recommended for a high build basecoat on concrete or masonry. Product is suitable in many chemical exposure environments.

Skydrol	B
10% sodium hydroxide	C
50% sodium hydroxide	C
10% sulfuric acid	C
70% sulfuric acid	A
10% HC1 (aq)	C
5% acetic acid	C

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 unless substrate is very porous, then use AM143/144 to eliminate air release defects.

Topcoat:

Recommend epoxy coatings or high builds. Topcoat with aliphatic urethanes for increased UV stability.

Limitations:

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

Colors may vary from batch to batch.

This product is not UV color stable and will yellow in the presence of sunlight; topcoat required.

Substrate temperature must be 5°F above dew point.

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

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

Although a thinner or lower solids primer is generally unnecessary, some more porous substrates may benefit by the use of a lower solid primer, with this product as an intermediate coat.

Physical properties databased on neat resin.

See reverse side for application instructions.

Physical properties are typical values and not specifications.

See reverse side for limitations of our liability and warranty.

AM 100LVP 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 between 60 and 90 degree F. Low temperatures or great temperature fluctuations may cause crystallization.
- 2) SURFACE PREPARATION:** The most suitable surface 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 12# part A to 4.05# part B for standard colors. 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:** This product is only intended as a high solids primer suitable for most substrates. However, if the surface is very porous, then a lower solids primer might be more suitable to reduce the possibility of air release problems occurring.
- 5) PRODUCT APPLICATION:** Brush, roller, or spray can apply the mixed material. 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.
- 6) RECOAT OR TOPCOATING:** This product is not color stable and a topcoat should be used. Many topcoats are suitable for placement over this coating including both urethanes and epoxies. When top coating this product, you must first be sure that the coating has tacked off before top coating can commence. Before top coating, check the coating to verify no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to top coating. A standard type detergent cleaner can be used to remove any blush. Many epoxy coatings and urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product as an intermediate build coat.
- 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. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications.

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