

AM100 is a two component 100% (+/-1%) solids epoxy colored coating designed for applications where a high build

# **Product Technical Data**

# AM 100 High Build Epoxy Basecoat

### **Recommended For**

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

## Solids By Weight:

**Product Description** 

impact resistant floor is needed.

100% (+/- 1%)

**Solids By Volume:** 100% (+/-1%)

Volatile Organic Content: Nearly zero pounds per gallon

#### **Standard Colors:**

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

Recommended Film Thickness: 12-14 mils

#### **Coverage Per Gallon:**

115-130 square feet per gallon @ 12-14 mils

#### **Packaging Information:**

3-gallon kit (2.64 gallons net approximately) 15-gallon kits (13.2 gallons net approximately)

#### **Mix Ratio:**

12 pounds (1 gallon) part A to 2.75 pounds (.32 gallons) part B (volumes approx.) (Standard colors)

#### Shelf Life:

1 year in unopened containers

#### **Finish Characteristics:**

Gloss (60-90 at 60 degrees @ glossmeter)

#### **Abrasion Resistance:**

Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 34 mg loss.

#### Adhesion:

420 psi @ elcometer (concrete failure, no delamination)

#### Viscosity:

Mixed= 1000-1300 cps (typical, most colors)

#### **Dot Classifications:**

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

Flexural Strength: 9,700 psi @ ASTM D790

Compressive Strength: 7,400 psi @ ASTM D695

Tensile Strength: 6,100 psi @ ASTM D638

Gardner Variable Impactor: 50 inch pounds direct – passed

Ultimate Elongation: 7.4%

#### Hardness:

Shore D= 86

#### Cure Schedule: (70°)

Pot life – 1 1/2 gallon volume 15-25 minutes

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Tack free (dry to touch)	5-7 hours
Recoat or topcoat	8-10 hours
Light foot traffic	10-14 hours
Full cure (heavy traffic)	2-7 days

#### **Application Temperature:**

60-90 degrees F with relative humidity below 80% for best results

#### **Chemical Resistance:**

Reagent	Rating
Xylene	С
1,1,1 trichloroethane	С
MEK	А
Methanol	А
Ethyl alcohol	В
Skydrol	В
10% sodium hydroxide	С
50% sodium hydroxide	С
10% sulfuric acid	С
70% sulfuric acid	А
10% HC1 (aq)	С
5% acetic acid	С

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:**

Recommend AM015, AM143/144

#### Topcoat:

Recommend AM321/322 aliphatic urethanes.

#### Limitations:

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

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

Apply a suitable primer before using this product.

This product is not UV color stable and will yellow in the presence of sunlight. We recommend a topcoat.

When using bright or light colors, multiple coats of a topcoat may be necessary, depending on the topcoat color used, to achieve a satisfactory hide.

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.

#### 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 100 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 2.75# 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 mix-ing 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: 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: If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. However, all previous coats should be deglossed to insure a trouble free bond prior to application of recoats or topcoats. Always remember that colder temperatures will require more cure time for the product before recoating or top coating can commence. Before recoating or top coating, 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 top coating or recoating. 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.

#### 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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