



american coating technologies

www.amcoating.com

# Product Technical Data

## AM 131M Tar Epoxy Coating

### Product Description

AM 131M is a two component 100% solids epoxy coating designed for applications to petroleum contaminated concrete and for coating asphalt based surfaces.

#### Solids By Weight:

100%

#### Solids By Volume:

100%

#### Volatile Organic Content:

Zero pounds per gallon

#### Standard Colors:

This product is available in black only.

#### Recommended Thickness:

12 mils

#### Coverage Per Gallon:

130-140 square feet per gallon @ 12 mils

#### Packaging Information:

2 gallons kit (18.0 pounds net approximately)

10 gallons kit (90 pounds net approximately)

(Volumes and weights approximate)

#### Mix Ratio:

9.0 pounds (1 gallon) part A to 9.0 pounds (1 gallon) part B (volumes and weight approximate)

#### Shelf Life:

1 year in unopened containers

#### Abrasion Resistance:

Taber abraser CS-17 callibrase wheel with 1000 gram total load and 500 cycles= 32 mg loss.

#### Viscosity:

Part A= 2200-3000 cps (typical)

#### Dot Classifications:

Part A "not regulated"

Part B "CORROSIVE LIQUID N.O.S., 8, UN-1760,PGIII"

#### Flexural Strength:

7,340 psi @ ASTM D790- 1/2"x1/2' bars span 4"

#### Yield Compressive Strength:

6,509 psi @ ASTM D695- 1/2"x1/2" bars

#### Tensile Strength:

5,100 psi @ ASTM D638 – testing dimensions F=2.25", W= 0.500", T= 0.125", D=4.5" and rate=0.2/minute

#### Ultimate Elongation:

7.6%

#### Gardner Variable Impactor:

100-inch pounds direct- passed

#### Adhesion:

440 psi @ elcometer (concrete failure, no delamination)

#### Weathering:

Good stability

#### Hardness:

Shore D= 80

#### Cure Schedule: (70°)

Pot life – 2 gallon volume 20-30 minutes

Tack free (dry to touch) 6-8 hours

Recoat or topcoat 7-9 hours

Light foot traffic 14-16 hours

Full cure (heavy traffic) 2-7 days

#### Application Temperature:

55-90 degrees F

#### Chemical Resistance:

Reagent	Rating
Xylene	C
1,1,1 trichloroethane	C
MEK	A
Methanol	A
Ethyl alcohol	C
Skydrol	A
10% sodium hydroxide	D
50% sodium hydroxide	C
10% sulfuric acid	B
70% sulfuric acid	A
10% HC1 (aq)	C
5% acetic acid	A

### Recommended For

Recommended for resurfacing asphalt base substrates, concrete or cement.

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 (see reverse for options)

#### Topcoat:

None required. (See reverse for options)

#### Limitations:

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

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

Apply a suitable primer when necessary before using.

This product is not intended for use as a decorative coating or where color stability or visual appearance is of any significant importance. Its sole purpose is as a protective coating.

If a topcoat of a different color is to be used, multiple coats will be necessary to prevent bleed-through (discoloration)

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 131M 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 product 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 9.0# (1 gallon) part A to 9.0# (1 gallon) part B. Mix equal volumes of the two components with a jiffy mixer or other suitable equipment until the material is thoroughly mixed. After mixing, transfer the mixed material to another pail (the transfer pail) is now ready to be applied. Improper mixing may result in product failure.
- 4) PRIMING:** A primer is not necessary when using this product, however, if the substrate is excessively porous, a suitable primer can be used to help eliminate any surface defects resulting from air release from the substrate.
- 5) PRODUCT APPLICATION:** Brush or roller 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 within the recommended range 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. For top coating with the same product, merely topcoat. However, if top coating with other colored topcoats, multiple coats will be required to prevent bleed-through. Contact your AMERICAN COATING TECHNOLOGIES for further details.
- 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.

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

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