



american coating technologies
www.amcoating.com

Product Technical Data

AM 030 Water Based Urethane Sealer/Topcoat

Product Description

AM 030 is a two component water based catalyzed aliphatic high performance urethane emulsion sealer/topcoat that exhibits excellent abrasion resistance without the objectional solvent odors associated with other urethane products. This product has an extremely fast set time and a very long pot life.

Recommended For

Recommended for coating concrete or topcoating epoxy coatings. Do not use in immersion service or constant chemical exposure areas.

Solids By Weight:

Mixed= 30% (+/- 2%)

Solids By Volume:

Mixed = 24% (+/- 2%)

Volatile Organic Content:

Part A= 1.03#/gallon, Part B= 0.0#/gallon
Mixed VOC= 1.03#/gallon

Colors Available:

This product is available in a clear only

Recommended Film Thickness:

3-4 mils wet (0.5 – 1.0 mils dry)

Coverage Per Gallon:

401-534 square feet @ 3-4 mils wet thickness

Packaging Information:

This product is available in 1 gallon and 5 gallon kits (A gallon kit= 8.5 pounds net approximately)

Mix Ratio:

1 gallon part A (8.5# approximate) to 50 grams part B by weight. (1 gallon total mix- 77:1 mix ratio by weight)

Shelf Life:

1 year in unopened containers.

Finish Characteristics:

High gloss (>80 at 60 degrees @ glossmeter)

Abrasion Resistance:

Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 10 mg loss

Impact Resistance:

Gardner Impact, direct = 50 in.lb. (passed)

Flexibility:

No cracks on a 1/8" mandrel

Adhesion:

345 psi @ elcometer (concrete failure, no delamination)

Viscosity:

Mixed = <100 cps

Dot Classifications:

Not regulated

Elongation At Break:

120%

Cure Schedule: (70°)

Pot life – 1 gallon volume	24 hours
Tack free (dry to touch)	10-20 minutes
Recoat or topcoat	1-2 hours
Light foot traffic	2-4 hours
Full cure (heavy traffic)	2-3 days

Application Temperature:

55-100 degrees F with relative humidity below 85%

Chemical Resistance:

Reagent	Rating
Xylene	A
MEK	A
Gasoline	A
10% sodium hydroxide	B
50% sodium hydroxide	B
Acetic acid 5%	A
10% sulfuric	B
10% hydrochloric acid	B
20% nitric acid	A
Ethylene glycol	B

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 NP143/144, NP154 or NP015

Topcoat:

None recommended

Limitations:

Colors or gloss may be affected by high humidity, low temperatures, or chemical exposure.

For best results use a high quality 3/8" nap roller.

Slab on grade requires moisture barrier.

Substrate temperature must be 5°F above dew point.

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

Physical properties are typical values and not specifications.

Light or bright colors (white, safety yellow, etc) may require multiple coats or a suitable color coordinated primer to achieve a satisfactory hide.

Tire contact may cause staining and discoloration.

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

Lights like sodium vapor lights can cause discoloring.

See reverse side for application instructions.

See reverse side for limitations of our liability and warranty.

AM 030 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. Keep from freezing.
- 2) SURFACE PREPARATION:** Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete has an appropriate vapor barrier. 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 does not show signs of eventual hydrostatic pressure problems that may later cause disbonding. However, this product can be applied to a damp floor as long as there are not standing puddles.
- 3) PRODUCT MIXING:** Kits should be mixed in their entirety. If partial kits are to be used, refer to the front of this technical data for proper weight mix ratios. 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. This product can be applied as either a one component (part A) product or the part B can be added. The part B increases the chemical resistance and physical properties by increasing the cross section cured density. We recommend that the part B be used for best results.
- 4) PRODUCT APPLICATION:** The mixed material can be applied by brush or roller. Maintain temperatures and humidity within the recommended ranges during the application and curing process. When adding the part B, the pot life is reached after 24 hours. Although the material can still be applied after 24 hours, we recommend that the material be applied prior to 24 hours after the part B is blended into the part A. Improperly applying the material too thick may result in product failure.
- 5) RECOAT OR TOPCOATING:** If you opt to recoat this product, you must first be sure that all of the solvents and water have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating can commence. We do not recommend any coatings be placed over this product except multiple coats of this product itself. If previous coats have a blush, clean with a standard type detergent cleaner.
- 6) CLEANUP:** Use PM solvent.
- 7) 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.
- 8) 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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