



american coating technologies

www.amcoating.com

# Product Technical Data

## AM 356PAVOC Aliphatic Moisture Cured Urethane

### Product Description

AM 356PAVOC is a one component moisture cured polyurethane (HDI based) floor coating/sealer that exhibits superior characteristics for abrasion resistance and chemical resistance. This product has good UV stability.

### Recommended For

Recommended for showrooms, warehouses, laboratories, cafeterias, and most indoor chemical exposure areas with regard to concrete or cement.

#### Solids By Weight:

65% (+/- 3%)

#### Solids By Volume:

60% (+/- 3%)

#### Volatile Organic Content:

2.8 pounds per gallon

#### Color:

Clear (gardner 1)

#### Recommended Film Thickness:

2-5 mils per coat wet thickness

#### Coverage Per Gallon:

320 to 800 square feet @ 2-5 mils wet thickness

#### Packaging Information:

1 gallon, 5 gallon and 55 gallon containers (volumes approximate.)

#### Mix Ratio:

One component product

#### Shelf Life:

3 months in unopened containers

#### Finish Characteristics:

High gloss (>70 at 60 degrees @ glossmeter)

#### Abrasion Resistance:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 4.4 mg loss

#### Impact Resistance:

Gardner Impact, direct & reverse= 100 in. lb. (passed)

#### Hardness:

2H

#### Flexibility:

No cracks on a 1/8" mandrel

#### Adhesion:

360 psi @ elcometer (concrete failure, no delamination) (applied over NP154 clear primer)

#### Viscosity:

Less than 200 cps (typical)

#### Dot Classifications:

"FLAMMABLE LIQUID N.O.S, 3, UN1993, PGIII"

#### Cure Schedule: (70°)

Pot life – 1 gallon volume	3-5 hours
Tack free (dry to touch)	4-7 hours
Recoat or topcoat	9-13 hours
Light foot traffic	13-24 hours
Full cure (heavy traffic)	3-5 days

#### Application Temperature:

50-90 degrees F with relative humidity between 60-90%

#### Chemical Resistance:

Reagent	Rating
Acetic acid 5%	C
Xylene	E
MEK	B
Methyl alcohol	B
Gasoline	D
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric	D
10% hydrochloric acid	D
20% nitric acid	C
Ethylene glycol	D

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:

Recommended NP154 clear

#### Topcoat:

None recommended

#### Limitations:

Clarity of color may be affected by high humidity, low temperatures, chemical exposure or exposure to lighting such as sodium vapor lights.

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.

Use a suitable primer.

If recoating after 24 hours, then the surface must be deglossed before the application.

The concrete and joints must be thoroughly dry prior to application.

Applying the product thicker than recommended may result in product failure.

Applications in direct sunlight, high humidity or high temperatures may cause surface curing before suitable air release has occurred.

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 356PAVOC 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.
- 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 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 is a one component product. Before using stir well. Avoid whipping air into the coating when stirring.
- 4) **PRODUCT APPLICATION:** The material can be applied by brush or roller. Be sure to thoroughly roll out the material in successive passes to make sure the substrate is well wetted out. Read the MSDS before using. Maintain temperatures within the recommended ranges during the application and curing process. Properly prime the substrate. Too thick of an application or application to a damp surface may cause product failure. When using a primer other than those listed on the front of this technical data sheet, apply a test patch before overcoating the primer to determine suitability and compatibility. Because the product is applied as a very thin protective coating, some environments that are dusty, may deposit dust particles on the surface that could be visibly seen. Always apply a test patch prior to large scale applications to determine product suitability.
- 5) **RECOAT OR TOPCOATING:** Multiple coats of this product are acceptable. If you opt to recoat this product, you must first be sure that all of the solvents 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 can be started. Always remember that colder temperatures will require more cure time for the product before recoating can commence. Before recoating or topcoating, check the coating to insure no contaminants exist such as an epoxy blush. If necessary, clean the surface prior to recoating with a standard type detergent cleaner. When recoating this product with subsequent coats of the urethane, it is advisable to apply the recoat before 24 hours passes. Also, it is advisable to degloss the previous coat to insure a trouble free bond, if more than 24 hours has elapsed since the previous coat.
- 6) **CLEANUP:** Use ketone solvents
- 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.

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

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