



# AU 85

## HIGH SOLIDS ALIPHATIC URETHANE FLOOR COATING SYSTEM

### PRODUCT DESCRIPTION

AU 85 is a commercial grade, solvent-based, high gloss aliphatic urethane coating is designed to enhance and protect a variety of surfaces from deterioration, oil and gas stains, harsh liquids and chemicals. It is manufactured in the U.S. and made from the latest resin technology. It is a low odor, zero VOC product. AU 85 will provide a long-lasting, high gloss finish that won't peel, chip, or flake. The UV stable formula will resist fade and gloss deterioration due to sunlight. A true industrial coating.

### BENEFITS/FEATURES

- ◆ Provides a long-lasting, UV stable high gloss finish.
- ◆ Reduces deterioration caused by surface abrasion.
- ◆ Offers excellent long term wear resistance.
- ◆ Reduces the formation of efflorescence.
- ◆ Prevents concrete surface stains.
- ◆ Resists oil, gas, harsh liquids, and chemicals
- ◆ Easy to apply and maintain.
- ◆ Can provide many years of life before the need for a re-coat.
- ◆ Stops concrete dusting.

### APPLICATIONS

- ◆ Interior concrete floors that have been diamond-ground to a 40-80 grit finish
- ◆ Garage and shop floors, aircraft hangar floors
- ◆ Warehouse and manufacturing plant floors
- ◆ Kennel floors
- ◆ Retail and showroom floors

### TECHNICAL INFORMATION

Abrasion Resistance.....30 mg loss  
(Tabler Index, ASTM 4060-81, CS-17 Abrasion Wheel, 1000 gram load)  
 Gloss 60.....90-95  
 Flexibility (1/8" Mandrel).....Pass  
 Hardness - Shore D.....65  
 Water Resistance.....Excellent  
 Solids % Weight (Federal Spec. TTP-141B).....85%  
 Density lbs/Ga. (Federal Spec. TTP-141B).....8.79  
 VOC .....< 10 g/l

Mix Ratio (a/b volume).....1 to 1  
 Coverage (3-5 mils dft.).....250-340 sq. ft./ga  
 Viscosity.....400-600 cps  
 Pot Life.....30-45 minutes  
 Dry Time-Set to Touch.....8-10 hours  
 Dry Time-Recoat.....10 - 14 hours  
 Dry Time-Foot Traffic.....24 - 36 hours  
 Dry Time-Wheel Traffic.....3 - 5 days  
 Application temperature.....45-85 degrees F

### CHEMICAL RESISTANCE

NO EFFECT: Urine, Blood, Brake Fluid, Xylene, Gasoline, Oil, Skydrol B-4, Ethylene Glycol, MEK, 10% and 50% Sodium Hydroxide, 25% Sulfuric Acid, 25% Acetic Acid, 20% Nitric Acid, 10% Hydrochloric Acid.

PLEASE NOTE: A chemical exposure test should always be performed prior to application to ensure satisfactory resistance.

### COVERAGE

First Coat	250-300 ft <sup>2</sup> gallon
Second Coat	300-400 ft <sup>2</sup> gallon

Coverage rates will vary depending upon surface porosity and texture, and application method. Excessive build up should be avoided.

### SHELF LIFE

When properly sealed and stored, the shelf life of the product is up to 1 year.

### PACKAGING

AU 85 is available in 2 gallon and 10 gallon kits

## APPLICATION

**SURFACE PREPARATION:** Surface preparation is key to the success and life of the AU 85. Product should be applied to fully cured concrete that has been properly prepped with a diamond grinder or scarifier to a 25-80(csp3) finish. Surface needs to be completely dry and free of oil, dirt, grime, wax, detergent or any incompatible paint or coating.

If applying the AU 85 as a top coat over another coating, AU 85 must be applied within the recoat window of the base product. If applying outside the time window, additional surface prep will be needed.

### PRODUCT MIXING:

**CLEAR:** Slow drill mix 1 Part A with 1 Part B in a clean 5 gallon pail. Mix for 60-90 seconds, or until material is thoroughly blended and homogenous. Avoid whipping air into the coating. Improper mixing can result in coating failure.

**OPTIONAL COLOR:** Before adding in Part B, slow drill mix color into the Part A for roughly 30 seconds. Once the color has been mixed into Part A, add in Part B and slow drill mix for 60-90 seconds, or until material is thoroughly blended fully and even.

**NON SLIP:** Tru Grip Non Slip additive should only be added into the top coat, not the base coat. The non-slip additive will be added into the fully blended AU 85 before applying to concrete surface. It is important to continuously mix during application, otherwise the non-slip additive will settle to the bottom of the pail. Mix approximately 2 oz. of non slip additive per gallon of mixed material. For example, if you are mixing a 2 gallon AU 85 kit, you would mix in a total of 4 oz of Non-Slip Additive. More can be added, but if too much is added the surface gloss may be compromised and have visible look.

**PRODUCT APPLICATION:** Pour material out in a ribbon and pull evenly with a 1/8 inch notched squeegee. Backroll the material with even strokes using a shed free roller. It is important to apply within estimated pot life and recommended temperature guidelines. Please note that pot life may vary. If the material becomes thick while applying, or starts sticking to the roller, stop applying and discard the mixed material. At this point it has reached the end of the usable pot life. While applying keep a wet edge to prevent roller marks. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to Puddle! If recoating after 24 hours you **must wait** 5-7 days to allow the coating to cure. Once 5-7 days has passed, a light sanding using an 80 grit screen pad is required prior to applying an additional coat to ensure adequate coat adhesion.

### PLEASE NOTE:

When applying the AU 85 with color, you may see small areas of concrete through the first coat of material. Applying a second color coat will help to achieve a consistent opaque surface finish.

The AU 85 should be applied in thin, even coats. **Do not attempt to use the material to fill in concrete cracks, holes, divots, or surface imperfections.**

Applying AU 85 outside of the suggested parameters may result in job failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc.

## CLEAN-UP

Use MEK. Dispose of containers in accordance with local and federal regulations.

## PRODUCT REMOVAL

Dried, cured sealer may be removed with a commercial paint stripper, or by using a diamond grinding method, sandblasting method or similar mechanical action.

## PRECAUTIONS AND LIMITATIONS

- ◆ Concrete must be cured for at least 28 days.
  - ◆ Coverage rates depend upon many conditions including application method, surface porosity, and applicator.
  - ◆ Apply only in thin coats as it is not designed as a high build coating. Do not puddle.
  - ◆ Be aware that this product may be slippery when wet. Non-Slip additives are available.
  - ◆ AU 85 may darken the surface of many new and existing concrete substrates. Test prior to use.
  - ◆ Physical properties listed on this technical data sheet are typical values, not specifications.
- If applying over an existing coating, proper adhesion and compatibility tests are essential. In this application the substrate preparation, application, performance and all other liabilities are strictly the end users responsibility. Foundation Armor also offers no guaranty, warranty or other claims to the success or results of a job or project.