

# 60% ALIPHATIC URETHANE

PRODUCT CODE: 005-5100U

## 2K, 60% Solids, Solvent Based Aliphatic Urethane

### PRODUCT DESCRIPTION

**60% Aliphatic Urethane** is a two component aliphatic polyurethane coating with excellent abrasion resistance, chemical resistance, hot tire resistance and UV Stability. **60% Aliphatic Urethane** is designed as a high performance topcoat for concrete flooring systems.

### BENEFITS/FEATURES

- ◆ Excellent long term wear capabilities
- ◆ Excellent chemical resistance
- ◆ Excellent resistance to stain

### RECOMMENDED APPLICATIONS

**60% Aliphatic Urethane** has been designed as a high performance topcoat for various concrete and seamless floor applications. It is an excellent coating for auto service centers, warehouses, computer rooms, laboratories, aircraft hangars, cafeterias, exterior tanks and other areas where high performance, abrasion resistance and chemical resistance are required.

### TECHNICAL INFORMATION

Abrasion Resistance.....35 mg loss <small>(Tabler Index, ASTM 4060-81, CS-17 Abrasion Wheel, 1000 gram load)</small>	Mix Ratio (a/b volume).....2 to 1 ** 16.73# part A (2.0 gallon approximate) to 8.75# part B (1 gallons approximate)
Gloss 60°.....90-95	Coverage (3-5 mils dft.).....250-340 sq. ft./ga
Flexibility (1/8" Mandrel).....Pass	Viscosity.....400-600 cps
Hardness - Shore D.....62	Pot Life.....1 - 1.5 hours
Water Resistance.....Excellent	Dry Time-Set to Touch (50% R.H. @ 72° F).....4 - 6 hours
Solids % Weight (Federal Spec. TTP-141B).....60%	Dry Time-Recoat (50% R.H. @ 72° F).....10 - 12 hours
Density lbs/Ga. (Federal Spec. TTP-141B).....8.49	Dry Time-Light Traffic (50% R.H. @ 72° F).....24 hours
VOC .....< 400 grams per liter	Dry Time-Full Cure (heavy traffic) (50% R.H. @ 72° F).....3 - 5days
	Application temperature.....45-90 degrees F

### CHEMICAL RESISTANCE

Urine.....No Effect	10% Sodium Hydroxide.....No Effect
Blood.....No Effect	50% Sodium Hydroxide.....No Effect
Brake Fluid.....No Effect	25% Sulfuric Acid.....No Effect
Xylene.....No Effect	25% Acetic Acid.....No Effect
Gasoline.....No Effect	20% Nitric Acid.....No Effect
Skydrol B-4.....No Effect	10% Hydrochloric Acid.....No Effect
Ethylene Glycol.....No Effect	
MEK.....Film Softened	•• A chemical exposure test should always be performed prior to application to ensure satisfactory resistance.

### PRODUCT STORAGE

Store product in an area so as to bring the material to room temperature within the recommended application temperature range before applying. Long term storage should be between 60 and 90 degrees F.

### SHELF LIFE

**60% Aliphatic Urethane** has a shelf life up to one year (12 months) in it's original, sealed, unopened container.

### PACKAGING

**60% Aliphatic Urethane** is packaged in 3 gallon and 15 gallon kits.

# SURFKOAT™

### SURFACE KOATINGS, INC.

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EPOXIES, URETHANES, ETC. 60% ALIPHATIC URETHANE

## INSTRUCTIONS FOR USE

**SURFACE PREPARATION:** Surface preparation will vary according to the type of complete system to be applied. **60% Aliphatic Urethane** is designed to be applied only to primed surfaces within the recommended recoat window of the primer or previously sealed surfaces that have sufficient adhesion to the substrate. Apply coating to a clean surface that is completely dry and free of oil, dirt, grime, wax, detergent or any incompatible paint or coating. If applying to an existing fully cured coating the surface must be cleaned and lightly sanded with 80—100 grit sandpaper. If multiple coats of **60% Aliphatic Urethane** are required apply the second coat as close as possible to the suggested recoat time (see technical information section on this data sheet). Do not exceed 24 hours to recoat or a light sanding will be needed for adequate adhesion between coats.

**PRODUCT MIXING:** Pour a full pre-packaged kit of 2 parts of Part A to 1 part of Part B together and mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and homogenous. Avoid whipping air into the coating. Improper mixing may result in product failure.

**PRODUCT APPLICATION:** Apply the mixed material by brush or roller with a 3/8"- 1/2" nap shedless roller cover within the usable pot life time frame, as well as the recommended temperature and relative humidity guidelines listed in the Technical Information section. If the material becomes thick while applying and 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 a light sanding using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

**PLEASE NOTE:** Applying 60% Aliphatic Urethane 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 urethane may be removed with a commercial stripper, but recommended removal is by way of mechanical means, including sanding, shot blasting, etc.

## PRECAUTIONS AND LIMITATIONS

- ▶ All new concrete must be cured for at least 28 days prior to application.
- ▶ Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- ▶ **60% Aliphatic Urethane** should be applied in thin coats. Do not puddle.
- ▶ Be aware that this product may be slippery when wet. Anti Slip additives may be needed to reduce surface slip hazards.
- ▶ **60% Aliphatic Urethane** 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. Surface Koatings, Inc. offers no guaranty, warranty or other claims to the success or results of the job in this circumstance.

## SPECIAL NOTES

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use. This information can be requested by contacting customer service at 615-323-9461.

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