



Acrylic Urethane Data Sheet

Part # AU

DESCRIPTION: Concrete Solutions® Acrylic Urethane is a two component, high performance sealer used for a variety of applications. It has excellent UV resistance and gloss retention for exterior applications and provides a durable, easy to clean, chemical and stain resistant finish. It does not require a primer as with most urethanes but can be used directly as the first coat and topcoat sealer over regular and polymer modified concrete, porous tile, brick and exposed aggregate. It is also compatible to apply over Concrete Solutions WB Epoxy. For stamped concrete applications the Acrylic Urethane can be used in place of the Stamped Concrete Sealer where a more durable, high gloss finish is desired.

TYPICAL USES: Acrylic Urethane is most commonly used as a clear topcoat protective sealer in exterior coating applications where extra UV resistance, durability and stain resistance is desired compared to single component materials. It is excellent over acid stained and/or dyed surfaces that have been properly cleaned and neutralized, stamped concrete, colored concrete and exposed aggregate surfaces. For stamped concrete applications, thin the first coat of Acrylic Urethane with 50% acetone (where local laws permit).

FEATURES & BENEFITS:

- Does not require a primer
- Chemical and stain resistant
- High gloss
- Durable, easy-to-clean
- Can be applied by brush, roller, airless sprayer or Concrete Solutions acetone resistant sprayer
- Excellent UV resistance

CHEMICAL PROPERTIES:

	Result
Solids by Weight	38%
Volatile Organic Compounds	2.09 lbs/gal (250 g/l)
Mix Ratio, parts per volume	2A : 1B
Pot Life, minutes	90
Recoat, min / max	2 – 4 hrs / ≤24 hrs
Dry to Touch	2 – 4 hrs
Walk on Time (light foot traffic)	8 hrs
Return to Service Time (vehicle traffic)	3 days
Full Cure	7 days
Coverage Rate per Gallon	- using acetone resistant sprayer 300 – 400 sqft
Recommended Application Temperature	≥50°F (10°C)
Odor	solvent
Color	clear
Shelf Life - Unopened Containers, stored in 50° – 80°F (10° – 27°C)	24 mo

TYPICAL PHYSICAL PROPERTIES:

	Test	Result
Hardness	Konig	127
Impact Resistance, in/lbs	ASTM D-2794	passes 38 in/lbs direct
Flexibility	ASTM D-222	passes 1/8 inch
60° Gloss		90

MOISTURE VAPOR TESTING: All concrete floors not poured over a proper moisture barrier, are subject to possible moisture vapor transmission or hydrostatic pressure problems which can cause a coating system to blister or fail. Before applying a coating system over a concrete floor which is on-grade or below grade, the customer should be informed of this potential problem and given the option to have a qualified moisture testing company perform calcium chloride test to give the proper recommendations.

SURFACE PREPARATION: The surface must be clean and sound, free from oil, dirt, waxes and any other contaminants that may interfere with bonding. One method includes scrubbing with detergent, acid washing, neutralizing and pressure washing to clean and rinse.

MIXING INSTRUCTIONS: Mix by volume 2 parts A [resin] to 1 part B [hardener] using a slow speed drill and mixing paddle. Mix only the amount of material that can be used in a 30 minute period. In hotter temperatures mix smaller

CONCRETE SOLUTIONS® ACRYLIC URETHANE (continued):

batches. For going over stamped concrete or when spraying out of a pump-up sprayer, up to 50% acetone should be added for easier workability. It is recommended to use our acetone resistant pump-up sprayer compressed up to 50 psi for the best results.

APPLICATION INSTRUCTIONS: Apply by brush, roller, airless sprayer or for the best results our compressed acetone resistant pump-up sprayer with tire valve at a coverage rate of 300 – 400 sq. ft. per gallon. When using a roller, spray the Acrylic Urethane out of a pump-up sprayer and back roll to achieve the best coverage rate. Roll quickly and move on to the next section keeping a wet edge as you go. Do not over roll to avoid air bubbles. Use a good quality 3/8" nap roller cover and rinse the roller and let dry prior to use. On some surfaces and in certain conditions tiny air bubbles may appear while rolling or spraying. If this happens use an electric air blower (do not use a gas blower) while wearing spiked shoes, immediately behind the sprayer or roller to remove them. **Warning: Turn off all pilot lights and any sources of open flames before application.**

For stamped concrete applications the Acrylic Urethane can be used in place of the Stamped Concrete Sealer where a more durable, high gloss finish is desired. For this application the 1st coat should be thinned 50% with acetone (where local laws permit). The second coat can be applied straight. Acrylic Urethane can also be used as a primer for SB Urethane, HP Urethane or WB Urethane 2A:1B if applied within 12 – 24 hours of each other. After 24 hours the Acrylic Urethane will need to be sanded with 80 – 100 grit sandpaper to lightly scratch and dull the surface.

Re-coating Instructions: Acrylic Urethane can be applied over itself when dry to touch (approx. 2 – 4 hrs.). It can also be applied over itself after 24 hours without sanding unlike most urethanes. The only requirement for re-coating is that the surface must be clean. Scrub with detergent and pressure wash or rinse to remove any dirt, oil or other contaminants that may interfere with bonding.

NOT RECOMMENDED FOR: • Do not apply over Concrete Solutions Stamped Concrete Sealer or Sealcoat 1000.

CHEMICAL RESISTANCE (ASTM D-1308) 24 HOUR IMMERSION:

Motor Oil.....no effect	MEK.....film destroyed
Gasoline.....no effect	Mineral Spiritsno effect
Brake Fluidno effect	Skydrolno effect
Transmission Fluid.....no effect	Whiskey.....no effect
Whiskeyno effect	10% Hydrochloric Acid.....no effect
Coffeeno effect	10% Sulphuric Acidno effect
Urineno effect	10% Acetic Acidno effect
Xylenefilm softened/recovered	

SUBSTRATES: Regular and polymer modified concrete, porous tile, brick and exposed aggregate

COLOR OPTIONS: Available in clear only. For colors use Concrete Solutions SB or HP Urethane

HOW SUPPLIED: Acrylic Urethane is sold in 1.5 and 3 gallon kits

SLIP/FALL PRECAUTIONS: Concrete Solutions recommends using slip resistant granules in all outdoor applications where the Acrylic Urethane will be used and on indoor applications that may be exposed to water, oil or other spills that may cause a slippery environment. Aluminum oxide granules #80 grit or courser may be broadcast into the prime coat to achieve the amount of slip resistance desired. It is the end users responsibility to determine the suitability of a coating for their particular application. Concrete Solutions or its sales people will not be responsible for injury incurred in a slip/fall accident.

WARNING: Acrylic Urethane is combustible and should be kept away from open flames. Turn out all pilot lights. Wear the proper breathing mask in areas with poor ventilation. Read Material Safety Data Sheet before using. For professional use only!

SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)

Chemical systems require the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

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Rhino Linings Corporation
9747 Businesspark Avenue, San Diego, CA 92131
858-450-0441 • Fax 858-450-6881
1-800-422-2603
www.rhino linings.com

Concrete Solutions by Rhino Linings
7455 Carroll Road, San Diego, CA 92121
1-800-232-8311 • Fax 858-566-4346
www.concretesolutions.com