

# ULTRA

## H/S Urethane Clear (4:1:1)



TECHNICAL DATA SHEET

EC300 ULTRA is a premium high-solids acrylic urethane system designed for professional refinish and restoration shops requiring superior performance from their clearcoat. This fast drying, easy-to-apply 4:1 clear provides exceptional flow and leveling, yielding beautiful gloss and distinctness of image with excellent resistance to shrinkage and dieback.

Designed for use with Kirker's single-stage paint systems or other manufacturer's basecoat or single-stage paint systems.

- National Rule Compliant
- Fast drying, fast delivery
- Beautiful, long-lasting gloss
- Excellent distinctness of image
- Easy 4:1 mix ratio
- High build in two coats

### COATING TYPE:

High-Solids Acrylic Urethane Clear

### PRODUCT CODE:

EC300 (Gallon)

### ACTIVATORS:

3065 Fast (Below 65°F)

3075 Medium (65°F - 85°F)

3085 Slow (Above 85°F)

### REDUCERS:

UR-9065 / UR-8065 Fast (Low temp)

UR-9075 / UR-8075 Medium (Mid temp)

UR-9085 / UR-8075 Slow (High temp)

UR-9095 / UR-8095 Super slow (Very high temp)

UE-8000 Universal Zero-VOC Reducer



### PHYSICALS:

<b>Appearance:</b>	Water white
<b>Weight per Gallon:</b>	7.99 lbs
<b>Package Measure:</b>	U.S. gallon (3.785 liters)
<b>RTS viscosity:</b>	18-21 sec. in #2 Zahn Cup
<b>Packaged VOC:</b>	4.2 lbs/gallon
<b>Mix ratio:</b>	4:1

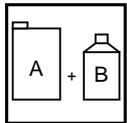


**SURFACE PREP:**

If applying clearcoat to existing finish, remove all traces of wax, grease, silicone, oil and other contaminants with detergent wash, followed with a solvent wash (such as Kirker's 650 Wax & Grease Remover). Sand existing finish to abrade with 600-800 grit. Re-clean with final wash cleaner (such as Kirker's 600 Surface Wash).

ULTRA may be applied wet-on-wet over basecoats after sufficient flash time (approximately 15-20 minutes). If applying clearcoat to newly applied (but cured) paint, sand undercoat with 800 grit before recoating to ensure sufficient adhesion.

If using EC300 for partial refinish or repair work, be sure to mask all adjacent panels to prevent dry overspray.



**MIXING:**

Mix ratio: 4:1:1 by volume. Thoroughly mix four (4) parts EC300 urethane clear with one (1) part of the appropriate Activator (3065, 3075, 3085) and one (1) part of the appropriate reducer, depending on air flow and shop temperatures. CAUTION: Mix only as much material as you will need to complete the immediate job.

**ACTIVATOR**

Temperature range	Less than 70° F	Between 70° F - 80° F	More than 80° F
Reducer (optional)	UR-9065 (fast)	UR-9075 (medium)	UR-9085 (slow)

**REDUCER**

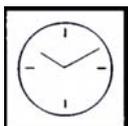
Temperature range	Less than 70° F	70° F - 80° F	80° F - 90° F	Above 90° F
Reducer (Gallon)	UR-9065 (Gal)	UR-9075 (Gal)	UR-9085 (Gal)	UR-9095 (Gal)
Reducer (Quart)	UR-8065 (Qt)	UR-8075 (Qt)	UR-8085 (Qt)	UR-8095 (Qt)
Speed	FAST	MEDIUM	SLOW	SUPER SLOW

One full part reducer is not always required, but may be necessary in certain situations (especially at higher temperatures) to help with flow and leveling during the application process. Selecting the appropriate urethane-grade reducer depending on shop temperature will also reduce the chance of orange peel.

If necessary, Kirker's UFE8 Universal Fish Eye Eliminator may be added to the mix (1/2 ounce of UFE8 per ready-to-spray quart of ULTRA Clear).

**4:1:1**

EC300	4 oz.	8 oz.	16 oz.	20 oz.
3065, 3075, 3085	1 oz.	2 oz.	4 oz.	5 oz.
UA Reducer	1 oz.	2 oz.	4 oz.	5 oz.
<b>TOTAL MIXTURE</b>	<b>6 oz.</b>	<b>12 oz.</b>	<b>24 oz.</b>	<b>30 oz.</b>



**POT LIFE:**

Approximately 2 hours at 70°F

Caution: Pot life of mixed components is significantly shorter at elevated temperatures and in humid conditions. These environmental factors also may affect flow and leveling.



**GUN SETTINGS:**

<u>GUN TYPE</u>	<u>TIP SIZE</u>	<u>AIR PRESSURE</u>
Conventional Siphon Feed:	1.4 mm – 1.8 mm	45-55 psi at the gun
Conventional Gravity Feed:	1.3 mm – 1.6 mm	45-55 psi at the gun
HVLP	1.3 mm – 1.5 mm	8-10 psi at the tip

*Always refer to gun manufacturer's recommendations for additional details on suggested tip size, air pressure and other adjustments.*



**APPLICATION:**

Apply EC300 in two (2) wet coats as necessary to achieve the desired build, allowing ten (10) minutes flash time between coats (+/- depending on air flow and temperature).

ULTRA may also be integrated into the final coat of Kirker's ULTRA-GLO single-stage urethane system for increased gloss and durability. This step is not necessary if planning to apply a separate clearcoat. Kirker's ULTRA Clear and ULTRA-GLO colors may be mixed at any ratio, as long as care is taken to first properly mix both the paint and the clear with their correct activators, at the correct mix ratios.



**DRY TIMES:**

	<u>AIR DRY</u>	<u>FORCE DRY</u> (Bake for 40 min. at 140° F after five-min. flash)
Dust free:	10 minutes	End of cycle
Tack free:	3 hours	End of cycle
Tape:	8 hours	20 minutes after cycle
Polish:	8-12 hours	20 minutes after cycle
Stripe:	Next day	20 minutes after cycle
Deliver:	Next day	20 minutes after cycle
Decal:	48 hours	20 minutes after cycle

*Air-dry times may vary slightly depending on shop temperatures, airflow and total film thickness. All dry times listed are approximate, at 70°F.*



**CLEANUP:**

Close all containers tightly after each use. Clean gun and spray equipment with gun wash or other appropriate solvent products immediately after application to prevent damage.

Keep in mind shelf life of 3065, 3075 and 3085 Activators is limited once cans have been opened. These products are susceptible to oxygenation and exposure to moisture. Therefore, containers should be closed tightly, with a clean seal, as quickly as possible. Also, activators should be stored at a consistent temperature to prevent the formation of condensation inside the can.



**RECOAT WINDOW:**

EC300 should not be recoated more than one hour after the completion of the previous coat. If more than one hour has elapsed, wait 6-8 hours (depending on air flow and temperature) before recoating. After 18 hours, EC300 may be recoated, but only after the surface has been abraded with 600-800 grit sandpaper to promote sufficient adhesion.

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**POLISH:**

After eight (8) hours dry time or 40-minute bake cycle, EC300 may be sanded with 1500 grit or finer to abrade surface and/or remove dust nibs and other imperfections such as orange peel, then with 2000 grit or finer sand paper to remove all 1500-grit scratches.

Use a wool pad or foam pad in combination with a high-quality clearcoat finishing compound, following material manufacturer's instructions. Follow with a high-quality finishing glaze applied either by hand, or variable-speed buffer.

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**HEALTH / SAFETY PRECAUTIONS:**

THIS PRODUCT IS INTENDED FOR USE BY PROFESSIONALS ONLY.

USE THIS PRODUCT ONLY WITH ADEQUATE VENTILATION: Wear appropriate, properly fitted fresh-air-supplied NIOSH/MSHA-approved respirator (TC-19C or equivalent) as directed by the manufacturer. Protect hands with impervious nitrile gloves. Always wear eye and face protection. Individuals with lung or breathing problems should neither use nor be exposed to this product, its vapors or spray mist. READ ALL WARNINGS ON ALL LABELS BEFORE USING.

This product is designed to be mixed with other components. Mixture will have hazards of all components. Before opening the packages, read all warning labels. Follow all precautions. See Material Safety Data Sheet for additional health and safety information.

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**WARRANTY:**

All recommendations for the use of Kirker products are based on tests and experience believed to be reliable. Since the methods of use, conditions of application, and the application itself are beyond our control, product warranty is restricted to replacement of material only. No other warranty, written or oral, is expressed or implied.

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**FOR ADDITIONAL INFORMATION:**



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