



## GENERAL INFORMATION

Simply stated, USC01 Kosmic Urethane Show Klear is the finest Klear House of Kolor has ever produced. Using state of the art polymer technology, we have developed a klear with excellent chemical, fuel, and water resistance, as well as the highest UV protection in the industry. As with all House of Kolor Klear products USC01 has three times the UV blocking capability when compared to standard automotive clear products. This is especially important when finishing Kandy's, Basecoats, and specialty products. USC01 is a medium solids Klear offering users excellent flow out, gloss, D.O.I. (Distinctness of Image) and sprays at over 40% volume of solids. USC01 can be used on all size vehicles from large trucks to compact cars, resulting in the show-ready finish that House of Kolor users crave. Cut, Buff, and Polishing has never been easier or faster. USC01 Kosmic Urethane Show Klear is the ideal klear coat for you and your pursuit of excellence.

USC01 Kosmic Show Klear meets all VOC rules and regulations, Coast to Coast, including California.

## IMPORTANT NOTES

ONLY USE KU152 CATALYST WITH USC01 KLEAR.

- KU152 is moisture sensitive and will not keep for long periods once opened. Keep the container tightly sealed. Clean the catalyst containers pour spout by wiping the threads with reducer for ease of reopening.
- USC01 Kosmic Show Klear is new technology and it's mixing ratio is different from all of our other klears. Please be mindful of this. DO NOT OVER CATALYZE. (3 parts Klear, 1 part KU152 catalyst, 1 part RU reducer)
- Over Spray from any catalyzed products may lift when base coats are applied. Mask carefully to prevent this over spray when painting door jambs, etc.



## SUBSTRATE

- All House of Kolor Products
- **NOTE:** Please refer to individual product tech sheets for proper system applications
- Properly cured and prepared OEM finishes



## PREPARATION

Please be aware that Shimrin® / Shimrin2® bases, Kandy's and Klears can be susceptible to staining or bleeding from plastic fillers, putties, fiberglass resins and some primers. To prevent staining, Please refer to the tech pages on KD3000 Series DTS Foundation Surfacer Sealers, or KP series.



## SANDING SUBSTRATE

- UK's and Shimrin® / Shimrin2® Base Coats (See tech sheets on UK Kandy's and Shimrin® / Shimrin2® Base Coats)
- OEM Finishes
- Dry Sandpaper = 280P to 320P grit (CAMI grade = 240 to 280 grit)
- Wet Sandpaper = 600P to 800P grit (CAMI grade = 400 to 500 grit)
- Scuff Pad



## COMPONENTS

- USC01 - Kosmic Urethane Show Klear
- KU152 - Kosmic Exempt Catalyst
- RU310 - Fast Reducer 65°F to 75°F
- RU311 - Medium Reducer 75°F to 85°F
- RU312 - Slow Reducer 85°F to 95°F
- RU313 - Very Slow Reducer 95°F to 100+°F
- RU300 - LV Cool Weather Reducer 70°F to 85°F
- RU301 - LV Warm Weather Reducer 85 to 100+°F
- AX02 - Kosmic Kicker (Optional)



## MIXING RATIO

**For 2.35 lbs./gal. (282 g/L) VOC (National Rule) - (3:1:1 by volume)**

- 3 parts USC01 Klear
- 1 part KU152 Catalyst
- 1 part RU310, 311, 312, 313 Reducers

**For 1.58 lbs./gal. (190 g/L) VOC (California Rule) - (3:1:1 by volume)**

- 3 parts USC01 Klear
- 1 part KU152 Catalyst
- ½ part RU300 or RU301 LV Reducer
- ½ part RU310, 311, 312, 313 Reducer

**For 1.10 lbs./gal. (132 g/L) VOC (Earthsense) - (3:1:1 by volume)**

- 3 parts USC01 Klear
- 1 part KU152 Catalyst
- 1 part RU300 or RU301 Exempt Reducer

**AX02 Kosmic Kicker - optional for all of the above mixing ratios - use only when finishing small parts or when productivity is required**

- Add up to 5% AX02 to mixed and ready to spray USC01

USC01 MIXED KLEAR (RTS)	KOSMIC KICKER
8 oz.	0.4 oz.
16 oz.	0.8 oz.
32 oz.	1.6 oz.
64 oz.	3.2 oz.
96 oz.	4.8 oz.
128 oz.	6.4 oz.



**Pot Life:** 90 minutes depending on shop conditions. The addition of AX02 will shorten pot life to 60 minutes or less based on conditions.

**NOTE:** For extra flow out, add up to 5% of RU Reducer per mixed quart of klear



## GUN SET UP

- HVLP Gun = 10 PSI at the cap (Refer to spray gun manufacturer's recommendations)
- Needle/Nozzle = 1.3 to 1.5 (Depending on the size of object being painted)
- Air Brush = Not recommended



## APPLICATION

Apply 1 medium coat and allow to flash 10 - 15 minutes then 2 to 3 medium wet coats allowing to flash 10 - 20 minutes. Shop conditions, air flow, and reducer used will vary flash times. A good rule of thumb is to monitor the finish, allow each coat to go out of tack (no strings) before applying the next coat. (DO NOT rush your recoat time between coats. You could experience solvent popping.)

**NOTE:** When applying USC01 directly over UK Kandy's, the first coat should be applied medium wet.

## DRY TIME

- Air dry at 70°F = 24 hours
- Air dry at 70°F with AX02 added at 5% of mix = 4 hours
- Force dry at 140°F = Allow the finish to flash 30 minutes, bake time should be 1 hour with 1 hour cool down.



**NOTE:** Based upon weather conditions, number of coats, solvent speed, and flash time between coats, etc., it is not unusual for the Klear to remain soft for extended periods of time. This does not mean the finish is uncured; it indicates the finish is holding solvents and will need additional time to fully harden.

## FINISH SANDING

IF NOT FLOW COATING, GO TO STEP FINISHING AND POLISHING

After clear coats have been cured overnight (12-24 hours), color sand wet (**PLEASE REFER TO SANDING GRIT RECOMMENDATIONS FOR URETHANE CLEARS**). Add a small amount of mild liquid detergent to the water and soak the sandpaper for 15-20 minutes. This prevents sandpaper loading. Sand the entire vehicle flat, leaving no glossy spots. Dry as you go, so soap residue doesn't bite the fresh paint. After sanding, wipe the vehicle with a clean rag and water. Wipe dry. Use a tack rag to remove lint before re-coating. (Chemical washes at this stage are not recommended). Use clean rags and KC20 or warm water.

**NOTE:** Avoid touching the vehicle with your bare hands as the oil from your skin may impair flow coats.

**CAUTION:** DO NOT SAND THROUGH THE CLEAR AND RUIN ALL YOU'VE DONE. Look for colored water, this will indicate you sanded through the clear.



## RECOAT (FLOW COATING)

RE-MASKING THE VEHICLE AFTER COLOR SANDING WILL GIVE YOU A CLEANER FINISH WHEN FLOW COATS ARE APPLIED.

After color sanding, re-clear using 2-4 ounces of extra RU reducer per mixed quart of clear. The additional reducer will give you extra flow out. Begin with a medium coat, allow flash time, and then follow with 1 to 2 wet coats. Allow flash time between coats.

**NOTE:** With this method, polishing is not required unless you desire a show quality finish, or to remove minor dirt particles.

## FINISHING AND POLISHING

- In a 70°F shop, allow 24 hours for dry time before polishing.
- In a 70°F shop, allow 4-6 hours if using AX02. Buffing within 24 hours is recommended when using AX02.
- **See tech sheet for information on Polishing & Finishing**

## CLEAN UP

Clean equipment thoroughly with lacquer thinner or urethane reducer (check local regulations).



## TECHNICAL DATA

Coatings Category	Clear Coat					
	2.35 lbs./gal. (282 g/L) VOC (National Rule)		2.1 lbs./gal. (252 g/L) VOC (California Rule)		1.10 lbs./gal. (132 g/L) VOC (EarthSense)	
	RU Reducers	Using AX02 @ 5%	RU Exempt Reducers	Using AX02 @ 5%	RU Exempt Reducers	Using AX02 @ 5%
Packaged Density	9.79 lbs./gal. (1175 g/L)	--	9.79 lbs./gal. (1175 g/L)	--	9.79 lbs./gal. (1175 g/L)	--
Packaged VOC	0.75 lbs./gal. (90 g/L)	--	0.75 lbs./gal. (90 g/L)	--	0.75 lbs./gal. (90 g/L)	--
Actual VOC RTS less exempt solvents	1.78 lbs./gal. (214 g/L)	1.76 lbs./gal. (211 g/L)	1.14 lbs./gal. (137 g/L)	1.33 lbs./gal. (159 g/L)	0.49 lbs./gal. (59 g/L)	0.68 lbs./gal. (82 g/L)
Regulatory VOC RTS less exempt solvents	2.35 lbs./gal. (282 g/L)	2.32 lbs./gal. (278 g/L)	1.69 lbs./gal. (203 g/L)	1.88 lbs./gal. (226 g/L)	0.84 lbs./gal. (101 g/L)	1.10 lbs./gal. (132 g/L)
Total HAPS (g HAPS/Solid L) Packaged	0.04 lbs./gal. (4.8 g/L)	--	0.04 lbs./gal. (4.8 g/L)	--	0.04 lbs./gal. (4.8 g/L)	--
(HAPS) Ready to Spray	2.03 lbs./gal. (244 g/L)	1.7 lbs./gal. (204 g/L)	1.06 lbs./gal. (127 g/L)	1.05 lbs./gal. (126 g/L)	0.08 lbs./gal. (9.6 g/L)	0.07 lbs./gal. (8.4 g/L)
Total % Solids by volume (RTS)	40.54%		40.54%		40.54%	
Weight % Volatiles (RTS)	59.2%	59.09%	60.58%	60.05%	61.87%	61.37%
Weight % exempt compounds (RTS)	40.14%	40.21%	48.85%	46.21%	57.0%	54.54%
Weight % water (RTS)	0%	0%	0%	0%	0%	0%



## TECHNICAL DATA (Continued)



<b>Viscosity (Ready to Spray)</b>			
#2 Signature Zahn @ 77 degrees	12 to 16 seconds	12 to 16 seconds	12 to 16 seconds
DIN 4 @ 77 degrees	12 to 16 seconds	12 to 16 seconds	12 to 16 seconds
Recommended dry film build per coat	1 mil	1 mil	1 mil
Sq. Ft. coverage/gal. at 1 mil	650.3 Sq. Ft.	650.3 Sq. Ft.	650.3 Sq. Ft.

### HEATH AND SAFETY

**IMPORTANT:** The contents of this package have to be blended with other components before the product can be used. Before opening the packages, be sure you understand the warning messages on the labels of all components, since the mixture will have the hazards of all its parts. Improper spray technique may result in a hazardous condition. Follow spray equipment manufacturer's instructions to prevent personal injury or fire. Follow directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

**See Material Safety Data Sheet and Labels for additional safety information and handling instructions.**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. **UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.