HOUSE of KOLOR

USC01 KOSMIC URETHANE SHOW KLEAR

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 blooming 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. (Distinctiveness 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 container prior by wiping the threads with reducer for ease of resealing.
• USC01 Kosmic Show Klear is new technology and its 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 jams, 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 Shinrim® / Shinrim® base, 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 technical pages on KC0000 Series DTS Foundation Surfacer Sealer, or KP series.

SANDING SUBSTRATE
• U.K.s and Shinrim® / Shinrim® Base Coats (See tech sheets on UK Kandy’s and Shinrim® / Shinrim® Base Coats)
• OEM Finishes
• Dry Sandpaper = 280grit to 320 grit (CAMI grade = 240 to 280 grit)
• Wet Sandpaper = 600grit to 800 grit (CAMI grade = 400 to 500 grit)
• Soft 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 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 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 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 KODER
0 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.

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

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

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**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 coated)
- 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. USC01 is very forgiving and will not react with itself when waiting longer between coats. The minimum time out of tack to a maximum of 1 hour is recommended between coats for premium appearance and adhesion.

**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 APPLYING GLASS, 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 COATINGS). And 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 it as you go, so stop restain doesn't come off 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. (Chemicals and solvents at this stage are not recommended). Use clean rags and KO22 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 RUN ALL YOU’VE DONE. Look for colored water, this will indicate you sanded through the clear.

**RECOAT (FLOW COATING)**
RE-READING 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 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

<table>
<thead>
<tr>
<th>Coatings Category</th>
<th>Clear Coat</th>
<th>2.35 lbs./gal. (282 g/L) VOC (National Rule)</th>
<th>2.1 lbs./gal. (252 g/L) VOC (California Rule)</th>
<th>1.10 lbs./gal. (132 g/L) VOC (Earthbase)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>RU Reducers Using AX02 @ 5%</td>
<td>RU Exempt Reducers Using AX02 @ 5%</td>
<td>RU Exempt Reducers Using AX02 @ 5%</td>
<td>RU Exempt Reducers Using AX02 @ 5%</td>
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<tr>
<td>Packageed Density</td>
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<td>Packageed Voc</td>
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<tr>
<td>Actual Voc RTS less exempt solvents</td>
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<tr>
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<td>Total HAPS (g HAPS/Solid L) Packageed</td>
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<td>0.04 lbs/gal. (4.8 g/L)</td>
<td>--</td>
<td>0.04 lbs/gal. (4.8 g/L)</td>
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<tr>
<td>(HAPS) Ready to Spray</td>
<td>2.03 lbs/gal. (244 g/L)</td>
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<td>40.54%</td>
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<td>Weight % Volatiles (RTS)</td>
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<td>Weight % water (RTS)</td>
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### TECHNICAL DATA (Continued)

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