## GENERAL INFORMATION

UKK01 Urethane Kandy Karrier takes House of Kolor into the 21st century with state of the art polymer technology to produce a solvent based custom paint system that is VOC compliant coast to coast. UKK01 can be applied as a medium solids Kandy (34% solids) or as a low solids Kandy (29% solids). Simply reduce and catalyze the UKK01 and then add 2 to 4 ounces of any of House of Kolor's KK Kandy Koncentrates to a ready to spray quart of UKK01 Urethane Kandy Karrier to produce the same vibrant Kandy Kolors as our current UK Kandy's.

## IMPORTANT NOTES

- We have designed specific Catalysts and Reducers to work with each of our urethane products. It is extremely important that you DO NOT attempt to use KU100, KU150 or KU151 in the UKK01 product, it will not work. ONLY USE KU152 CATALYST.
- KU152 is moisture sensitive and will not keep for long periods once opened. Keep the container tightly sealed. Clean the catalyst container's pour spout by wiping the threads with reducer for ease of reopening.
- UKK01 Urethane Kandy Karrier is new technology and its mixing ratio is different from all of our other Urethane Kandy's and klears. Please be mindful of this. DO NOT OVER CATALYZE. (4 parts UKK01, 1 part KU152 catalyst, 1 or 2 parts 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 Shimrin2® and Shimrin® Base Coats and Klears. (**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 polyester body fillers, putties, fiberglass resins and some primers. To prevent staining, Please refer to the tech pages on KD3000 DTS Foundation Surfacer Sealer, or KP Series.

## SANDING THE SUBSTRATE

- All House of Kolor Klear Coats
- 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

**NOTE**: DO NOT Sand directly on Shimrin® Base Coats. Sanding pearls and metallics will damage them causing darkening of the pearls and metallics. If you find a need to sand, apply 2 coats of S2-SG100 Intercoat over the base coat to protect them.

- 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

- UKK01 - Urethane Kandy Karrier
- KU152 - Kosmic Catalyst
- KK - Kandy Koncentrates
- 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)
- USC01 - Kosmic Urethane Show Klear

## MIXING RATIO

**For Low Solids Kandy (National Rule) 3.89 lbs./gal. (467 g/L) - 4:1:2 by volume**

- **4** parts UKK01 Urethane Kandy Karrier
- **1** part KU152 Catalyst
- **2** parts RU Reducer
- Add KK Koncentrates to desired strength (2-4 oz. per ready to spray quart of UKK01 is recommended)

**For Medium Solids Kandy (National Rule) 3.12 lbs./gal. (374 g/L) - 4:1:1 by volume**

- **4** parts UKK01 Urethane Kandy Karrier
- **1** part KU152 Catalyst
- **1** part RU Reducer
- Add KK Koncentrates to desired strength (2-4 oz. per ready to spray quart of UKK01 is recommended)

**For Low Solids Kandy (California Rule) 2.08 lbs./gal. (249 g/L) - 4:1:2 by volume**

- **4** parts UKK01 Urethane Kandy Karrier
- **1** part KU152 Catalyst
- **2** parts RU300 or RU301 LV Reducer
- Add KK Koncentrates to desired strength (2-4 oz. per ready to spray quart of UKK01 is recommended)

## MIXING RATIO (Continued)

**For Medium Solids Kandy (California Rule) 1.98 lbs./gal. (238 g/L) - 4:1:1 by volume**

- **4** parts UKK01 Urethane Kandy Karrier
- **1** part KU152 Catalyst
- **1** part RU300 or RU301 LV Reducer
- Add KK Koncentrates to desired strength (2-4 oz. per ready to spray quart of UKK01 is recommended)

**Optional**: AX02 Kosmic Kicker accelerator may be added to decrease dry times in production environments. Add up to 5% AX02 to ready to spray UKK01 mixture.
**Pot Life**: 90 minutes depending on shop conditions. The addition of AX02 will shorten pot life to 60 minutes approx.
**NOTE**: Blending Solvents - never combine fast and slow solvents. In cool weather, combine RU300 with RU310 or RU311. In hot weather, combine RU301 with RU312 or RU313.

## GUN SET UP

- HVLP Gun = 10 PSI at the cap (Refer to spray gun manufacturer's recommendations)
- Needle/Nozzle = 1.2 to 1.5 (Depending on the size of object being painted)
- Trigger Pull = 50% to 75%
- Air Brush = Not recommended

## APPLICATION

Start with low solid mixture. Apply 1 medium coat with a 75% pattern overlap and allow to flash 10 - 15 minutes then apply 2 more coats at a 75% pattern overlap as medium wet coats. Finish with Medium solid mixture. The final coats should be sprayed at a 50% pattern overlap as medium wet coats. (for a total of 4 to 6 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 string before applying the next coat. (DO NOT rush your recoat time between coats. You could experience solvent popping.) All Kandy finishes must be klear coated. After 20 to 30 minutes begin applying 2 to 3 coats of UCS01 Urethane Show Klear for maximum UV protection (Always refer to the appropriate tech sheets on the top coat klear you intend using).

**NOTE**: lighter colored basecoats require maximum Kandy coats (6 coats).

## KANDY APPLICATION TECHNIQUES

The application of "Kandy Type" finishes are among the most demanding of all finishes applied. Great attention must be paid in spray gun settings, number of coats and basic spray gun techniques. The following steps, when observed, provide consistent results.

### Setting up the Spray Gun

- Know the equipment
- Check spray gun pattern, it must be consistent. (See Diagram One)
- Turn fluid knob in, to restrict trigger pull and reduce amount of Kandy delivered. This must be done for the first two to three coats to avoid streaking. A 75% pattern overlap is mandatory.

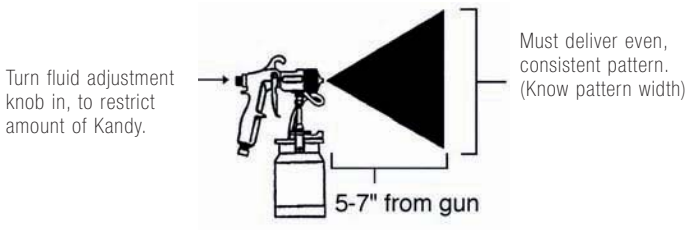


**Diagram One**

### Application - The First 2 to 3 Coats

- Apply Kandy with recommended pattern overlap. (See Diagram Two)
- Spray gun should be 4 to 6 inches from surface.
- Do not apply Kandy panel to panel, spray entire length of object.
- Spray in straight lines, do not follow body lines. (See Diagram Three)

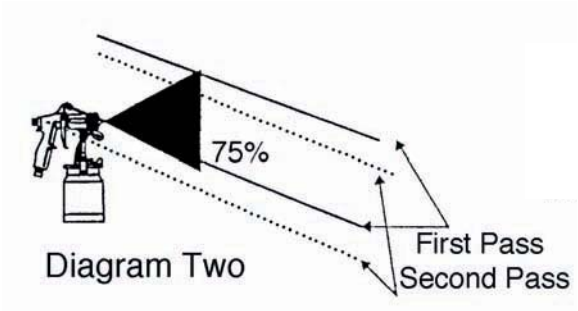


Diagram Two

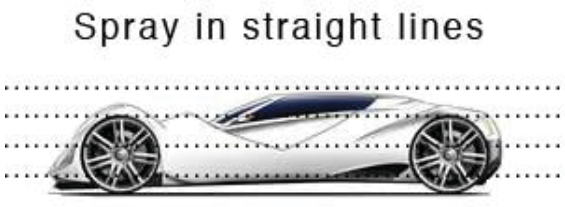


Diagram Three

## APPLICATION (Continued)

### Application - Final Coats

- Adjust fluid knob for a larger pattern 5-7" apply additional 2 to 3 coats with 50% overlap.
- Allow each coat to go out of tack before applying the next coat.
- Apply 2 to 3 coats of USC01 Urethane Show Klear, or other Kosmic Klears. Allow final coat of Kandy to go out of tack (20 to 30 minutes) then apply 2-3 coats of USC01 Urethane Show Klear or other House of Kolor Kosmic Klears.

## DRY TIME

- Air dry at 70°F = 24 hours
- Air dry at 70°F with AX02 added at 5% of mix = 4 - 6 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 finish 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.

## TECHNICAL DATA

| | VOC (National Rule) | VOC (National Rule) | VOC (California Rule) | VOC (California Rule) |
|---|---|---|---|---|
| Coatings Category | Component | Component | Component | Component |
| Mixing Ratio | 4-1-1 | 4-1-2 | 4-1-1 | 4-1-2 |
| Packaged Density | 9.46 lbs./gal. (1135 g/L) | 9.46 lbs./gal. (1135 g/L) | 9.46 lbs./gal. (1135 g/L) | 9.46 lbs./gal. (1135 g/L) |
| Packaged VOC | 2.36 lbs./gal. (283 g/L) | 2.36 lbs./gal. (283 g/L) | 2.36 lbs./gal. (283 g/L) | 2.36 lbs./gal. (283 g/L) |
| Actual VOC Ready To Spray less exempt solvents | 2.33 lbs./gal. (280 g/L) | 3.06 lbs./gal. (367 g/L) | 1.26 lbs./gal. (151 g/L) | 1.21 lbs./gal. (145 g/L) |
| Regulatory VOC Ready To Spray less exempt solvents | 3.12 lbs./gal. (374 g/L) | 3.89 lbs./gal. (467 g/L) | 2.08 lbs./gal. (249 g/L) | 2.25 lbs./gal. (270 g/L) |
| Total HAPS (lb HAPS/Solid Gal 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) | 0.04 lbs./gal. (4.8 g/L) |
| HAPS Ready To Spray | 2.03 lbs./gal. (244 g/L) | 4.03 lbs./gal. (484 g/L) | 0.08 lbs./gal. (9.6 g/L) | 0.13 lbs./gal. (15.6 g/L) |
| Total % Solids by Volume Ready To Spray | 33.78 % | 28.94 % | 33.78 % | 28.96 % |
| Weight % Volatiles Ready To Spray | 65.43 % | 69.51 % | 67.24 % | 72.22% |
| Weight % Exempt compounds Ready To Spray | 40.06 % | 35.33 % | 55.11 % | 61.27 % |
| Weight % Water | 0 % | 0 % | 0 % | 0 % |
| **Viscosity Ready to Spray** | | | | |
| #2 Signiture Zahn @ 77 Degrees | 12 – 15 Seconds | 11 – 14 Seconds | 12 – 15 Seconds | 11 – 14 Seconds |
| DIN 4 @ 77 Degrees | <13 Seconds | <13 Seconds | <13 Seconds | <13 Seconds |
| Recommended Dry Film Build Per Coat | | | | |
| Sq. Ft. Coverage/Gal at 1 mil. | 542 Sq. Ft. | 465 Sq. Ft. | 542 Sq. Ft. | 465 Sq. Ft. |

## HEALTH 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.**