

# UC35 KOSMIC ACRYLIC URETHANE KLEAR

## GENERAL INFORMATION

UC35 Kosmic Acrylic Urethane Klear is a 3.5 VOC for national rule or 0.50 VOC SCAQMD Rule 1151 compliant version. UC35 may be used to topcoat any urethane enamel finish, including all Shimrin® Base Coats. UC35 is medium solids, 30% solids as applied, and has the same application properties of conventional clear coats. UC35 features excellent gloss and D.O.I. (Distinctness Of Image). It has good chemical, fuel and water resistance, and excellent weathering and ultraviolet resistance. UC35 dries fast and hard and may be colored sanded and buffed the next day.

**NOTE:** UC35 IS THE PREFERRED CLEAR FOR USE ON MOTORCYCLES. BECAUSE OF ITS HIGHER ACRYLIC CONTENT, IT IS FASTER CURING, AND ALSO HAS BETTER RESISTANCE TO FUEL SPILLS.



## 1. PREPARATION

Read "TECH REP" thoroughly before you begin painting. To prevent filler bleed through, apply 3 coats of our KP2CF Chromate Free Kwikure Epoxy Primer or our KD2000 Direct To Metal Epoxy Primer. **See tech sheets for more information on KP & KD Primers.**



## 2. SUBSTRATE

- Shimrin® Base Coats
- UK Kandys
- Properly cured and prepared OEM finishes



## 3. SANDING THE SUBSTRATE

- UK's and Shimrin® Base Coats,
  - See tech sheets on UK Kandys and Shimrin® Base Coats
- OEM Finishes
  - Dry Sandpaper = 280P to 320P grit (CAMI grade = 240 to 280 grit)
  - Wet Sandpaper = 400 to 500 grit (FEPA grade 600P to 800P grit)
  - Maroon scuff pad



## 4. COMPONENTS

- UC35 Kosmic Acrylic Urethane Klear
- RU310 (fast), RU311 (medium), RU312 (slow), RU313 (very slow) urethane reducer, RU300 Exempt Reducer (California only)
- KU150 Catalyst or KU151 Exempt Hi Temp Flo-Catalyst
- Air Brush application: Not recommended



## 5. MIXING UC35 KOSMIC URETHANE KLEAR (MIX ONLY WHEN READY TO SPRAY)

- 2 parts Kosmic Acrylic Urethane Klear
- 1 part KU150 Catalyst or KU151 Exempt Hi Temp Flo-Catalyst
- 1 part RU- Reducer
- Air Brush Application: Not recommended



### For National Rule Compliance:

For a 3.5 VOC National Rule compliant Klear use RU310 (fast), RU311 (medium), RU312 (slow), RU313 (very slow) reducers. **REDUCE ONLY WITH KOSMIC REDUCERS.** Use a reducer best suited to your shop temperature.

**See tech sheet for more information on reducers.**

### For SCAQMD Rule 1151 Compliance:

For a 0.50 VOC SCAQMD Rule 1151 compliant Klear, use RU300 exempt reducer. **MUST REDUCE WITH RU300 TO REMAIN AT 0.50 VOC. See tech sheet for more information on reducers.**

For a 1.90 VOC SCAQMD Rule 1151 Compliant Klear, follow directions above except in place of RU300 use a 70% by volume RU300 / 30% by volume Kosmic Reducer blend. **See tech sheet for more information on reducers.**

**NOTE:** UC35 has a pot life of approximately 2 hours at 70°F.

**NOTE:** For extra flow out, add up to 10% of RU300 VOC Exempt Reducer per mixed quart of clear.

**NOTE:** We have designed specific Catalysts to work with each of our clears. These Catalysts are NOT interchangeable. Use only the Catalyst specified for the specific clear you are using.

**NOTE:** KU150 and KU151 Exempt Catalysts are moisture sensitive and will not keep for long periods once open. When doing many small jobs, buy smaller containers to prevent spoilage. Keep container tightly sealed. Clean the catalyst container's pour spout by wiping the threads with reducer for easy reopening.

## 6. GUN SET UP

- Conventional Gun = 55 to 65 PSI
- 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)
- Trigger Pull = 50% to 75%
- Air Brush = Not recommended



## 7. APPLYING KOSMIC KLEAR (UC35)

Apply 2-3 medium wet coats with 50% pattern overlap. Gun distance while spraying should be approximately 6 inches. Allow flash time between coats. **URETHANE FLASH TEST - PAINT SHOULD BE STICKY AND NOT STRING WHEN TOUCHED AT THE WETTEST POINT BEFORE NEXT COAT IS APPLIED.** (When using the flash test, always touch a new spot.) Monitor closely for maximum merging of coats.

**NOTE:** Waiting too long between coats can cause re-coat problems. If excessive dry time has elapsed and clear coat feels dry to the touch, allow 12 hours before sanding and re-coating to avoid lifting problems.

**NOTE:** Over spray from any catalyzed topcoat material (such as our UB04, UB05, UK Kandys, UC35 Klear or UFC19 Komply Klear® II may lift when base coats are applied. Mask carefully to prevent this over spray when painting door jambs, etc.



## 8. DRY TIME

- Air dry at 70°F = 24 hours
- Force dry at 140°F = 30 minutes flash time, 2 hours bake, 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.



## 9. COLOR SANDING

IF NOT FLOW COATING, GO TO STEP10 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 KLEAR AND RUIN ALL YOU'VE DONE.



## 10. FLOW COATS (optional)

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

After color sanding, re-clear using 4-6 ounces of extra RU300 VOC Exempt 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 1-2 wet coats. Allow flash time between coats. (For improved hardness the next day, add 1 extra ounce of KU150 or KU151 VOC Exempt Catalyst to this mixture) per mixed quart.

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





## 11. FINISHING AND POLISHING

- In a 70°F shop, allow 24 hours for dry time before polishing.
- **See tech sheet for information on Polishing & Finishing.**



## 12. CLEAN UP

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

## ADDITIONAL INFORMATION

When clear coating UB04 Jet Set Black mix equal amounts of UB04 and UC35 Kosmic Acrylic Urethane Klear, then catalyze and reduce as usual for improved gloss and jetness.

## NOTES