

# HOUSE OF KOLOR

## TECHNICAL DATA INFORMATION

**IMPORTANT NOTE:** This document includes information on UC-1 and UFC-1. These products are for sale outside the United States only.

**READ ALL INSTRUCTIONS THOROUGHLY BEFORE YOU BEGIN.** Our products are for use by trained professional personnel using proper production automotive spray equipment suitable for the paint to be sprayed. Proper spray booth, air system, respirator and basic spray painting ability are required.

**We do not recommend painting in temperatures below 21°C.**

### **NOT INTENDED FOR USE BY THE GENERAL PUBLIC.**

For controlled results, House of Kolor recommends products be used as a "total system". We do not recommend the intermixing of various manufacturers' products. This is only asking for trouble. No professional or amateur should run the risk of a job failure. Custom painting is complicated enough without gambling on untested product compatibility.

Apply only over House of Kolor primers/sealers and/or properly prepared OEM paint.

Do not apply House of Kolor products over alkyd or synthetic enamels, uncatalyzed acrylic enamel, primers, sealers or topcoats that may be coated with lacquer. You must control every step of the preparation including the products used for a successful paint job. Any unknowns such as existing primer, old paint, etc. can become the weak link in the custom painters' chain.

**IMPORTANT:** The data in this manual represent typical values obtained by the methods indicated. 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. Unless Valspar agrees otherwise in writing, Valspar's only obligation for any defect in this product under any warranty that Valspar provides or under any other legal theory will be to replace the defective product, or to refund its purchase price, at Valspar's option.

### **CAUTIONS**

Read Cautions and Warnings on all product can labels!

### **TECHNICAL DATA**

Material Safety Data sheets available upon request.

### **TECHNICAL ASSISTANCE**

1800 350 622

# PREPARATION

## BEFORE YOU BEGIN

***READ ALL INSTRUCTIONS THOROUGHLY.***

**We do not recommend painting in temperatures below 21°C.**

## GENERAL INFORMATION

Poor preparation can cause future topcoat problems. Sand the original finish well. Use our KP-2CF, or KP-21 catalyzed primers over body work and for build at deep sanded areas.

### 1. BODY WORK

Prepare vehicle using normal custom painting methods.

- A. Before any sanding, use KC-10 Wax & Grease remover to remove any tar, wax, or grease.
- B. Grind away paint and primer in areas requiring body work.
- C. Always be aware that your hands can transfer body oil, so keep a rag between you and the surface to be primed or painted and avoid touching the vehicle with your bare hand.
- D. Use power tools to get close when sanding filler. Then block sand. Keep the block front to rear, but crossing to prevent flat spots.
- E. Always prime with our KP-2CF, or KP-21 Primers. Allow proper cure time to prevent shrinkage.
- F. Guide coat your primer with Tempo 827 so when you block sand, your sand scratches or low spots are revealed. Final sand the primer with P400 grit sandpaper.

### 2. PRIMERS

Many bases are susceptible to staining or bleeding from plastic fillers, putties, fiberglass resins and some primers. To prevent staining, strip bare (or to OEM primer) and prime with our KP-2CF Chromate Free Kwikure Epoxy Primer or KP-21 Low VOC Epoxy Primer. ***See tech sheets for more information on KP Primers.***

**NOTE:** OEM (Original Equipment Manufacturer) coatings work well as a base for your paint job.

### 3. FOR EXISTING FINISHES

Surface should be free of wax, grease and foreign materials. Use KC-10 Wax & Grease Remover prior to any sanding. For post-sanding, use our KC-20 to remove any sanding residue for final wash. Sand the surface with P400 grit wet or P320 grit dry with a D.A. Sander (wet is best), and apply 1-2 coats of KO-Seal II (sealer). Let dry for 1 hour before top coating.

**NOTE:** Do not re-coat existing paint finishes in excess of 8 mils, as paint failure can result from excessive film build.

# KOSMIC REDUCERS & KUSTOM THINNERS

## GENERAL INFORMATION

### OUR QUALITY SHINES THROUGH

Make no mistake, there is a big difference in the quality of ingredients used in reducers and thinners. Some manufacturers, in an effort to cut costs, use inexpensive products and chemicals that have residual or long term release problems (often causing the paint to have a rubbery consistency for many weeks). Also these inexpensive ingredients cause reduced gloss or hazing of the final finish. This is particularly evident when paint is over reduced. With House of Kolor reducers and thinners no dulling occurs even when the paint is over reduced. Our quality shines through.

House of Kolor® uses only the finest ingredients. Our reducers and thinners leave the paint in stages for proper flow out and they retain the original gloss of the paint. We recommend that you use only our quality reducers and thinners with House of Kolor® products.

**DO NOT USE OTHER COMPANIES HARDENERS, REDUCERS OR THINNERS IN OUR PRODUCTS.**

## REDUCERS

### Reducers for Kosmic Kolor® Urethane Enamel & SHIMRIN® Universal Bases:

Our Kosmic Reducers - Ru-300 EXEMPT, RU-310 FAST DRY, RU-311 MEDIUM DRY, RU-312 SLOW DRY - are the only reducers we recommend for use with our Kosmic Kolor Urethane Enamel system. Used in the base, Kandy and clear coats, our reducers allow for:

- excellent sprayability
- good flow out and leveling
- fast staged release
- retention of gloss when dry

**NOTE:** Even with over reduction, the paint retains its gloss. Other reducers may cause dulling. This is especially true when any amount of over reduction has been attempted to even metallics or increase flow out.

Choice of reducer is dependent on three factors:

1. size of object being painted
2. shop temperature and humidity
3. air movement within the spray booth

**The following chart is for spray booth application only.**

**When not using a spray booth, use the next fastest reducer.**

*Our reducers are not cross referenced by any other paint company.*

RU-300 EXEMPT	RU-310 FAST DRY	RU-311 MEDIUM DRY	RU-312 SLOW DRY
Shop Temp.21-26°C	Shop Temp.18-24°C	Shop Temp.24-29°C	Shop Temp.29-35°C
Exempt reducer to meet VOC regulations.	Generally used on smaller objects, for touch ups on larger objects, and with Intercoat Clear to speed dry time.	Most commonly used reducer. Used for small objects in temperatures about 85°F or for large objects in spray booth temperatures of 75-85°F.	Used for blending bases or Kandys and for larger objects. Also used in warm, humid conditions to increase flow time and leveling. (In extreme hot conditions, use RU-315 Retarder (10-20%) to slow dry time even more.)

**NOTE:** Use RU-315 Retarder to slow dry times or for force drying.

**NOTE:** These reducers may also be intermixed for varying conditions. **DO NOT MIX KOSMIC REDUCERS WITH REDUCERS MADE BY OTHER MANUFACTURERS.** Regardless of what others say, our reducers are not cross-referenced by any other paint company.

# KOSMIC REDUCERS & KUSTOM THINNERS

## (continued)

### THINNERS

**Thinners for Kustom Kolor® Acrylic Lacquers:**

Our Kustom Thinners 101 HI-GLOSS and 202 FAST DRY are the finest thinners you can buy at any price. The thinner carries the paint to the surface, then evaporates from the paint film. The way the thinner leaves the film determines the flow, tack free time, consistency, shrinkage, leveling, dry time, tape time and final gloss.

Choose the thinner best suited to your shop conditions and the size of the object to be sprayed.

*Our Thinners are not cross referenced by any other paint company.*

101 HI-GLOSS	202 FAST DRY
SLOW DRY	FAST DRY
Shop Temperature Above 24°C	Shop Temperature Below 24°C
For large objects or in extreme hot or humid conditions. With slow dry thinner, proper air movement is necessary to pull the thinner from the paint.	For small objects or cool shop conditions.

**NOTE:** Use RU-315 Retarder to slow dry times or for force drying.

**NOTE:** These thinners may also be intermixed for varying conditions. **DO NOT MIX KUSTOM THINNERS WITH THINNERS MADE BY OTHER MANUFACTURERS.**

### MIXING

Always measure when mixing. There is little room for guess work in custom painting. For mixing ratios of reducers and thinners, refer to the individual product instructions.

### ADDITIONAL INFORMATION

**KOSMIC KOLOR® BASES, KANDYS & CLEAR COATS:** Follow label instructions on reduction amounts. For increased flow out, add additional reducer. House of Kolor® paint products are thicker in the can than others and the additional reducer gives you more coverage per quart and also increases flow out. Usually 3 ounces per mixed quart is adequate.

**SHIMRIN® UNIVERSAL BASES:** Extra reducer should not be used in the SHIMRIN® Universal Bases. When SHIMRIN's® are used with a complete lacquer paint job, they may be thinned with lacquer thinner (in place of Kosmic Reducer).

**INTERCOAT CLEAR:** Reducers in Intercoat Clear should be as fast as can comfortably be used. This will lessen dry time and allow artwork tape outs as soon as possible (usually within the hour, depending upon shop and weather conditions).