

KOSMIC REDUCERS, THINNERS, & HARDENERS



GENERAL INFORMATION

HOUSE OF KOLOR® 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:

Kosmic Reducers - RU300 EXEMPT, RU310 FAST DRY, RU311 MEDIUM DRY, RU312 SLOW DRY, RU313 HIGH TEMP - 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.

RU300	RU310	RU311	RU312	RU313
70 - 80°F	65 - 75°F	75 - 85°F	85 - 95°F	95 - 110°F
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 above 85°F or for larger 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.	Used for blending bases or Kandys and for very larger objects. Also used in very warm, humid conditions to increase flow time and leveling. In extremely hot & humid conditions, use RU315 Retarder (up to 10% by volume to slow dry time even more).

NOTE: Use RU315 Retarder to slow dry times or for force drying.

NOTE: Use RU315 Retarder Sparingly. This is an additive, not a reducer.

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.

THINNERS

Thinners for Kustom Kolor® Acrylic Lacquers:

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.

RU101 HI-GLOSS	RU202 FAST DRY
SLOW DRY	FAST DRY
Shop Temperature Above 75°F	Shop Temperature Below 75°F
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 RU315 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 lesson dry time and allow artwork tape outs as soon as possible (usually within the hour, depending upon shop and weather conditions).

KOSMIC REDUCERS, THINNERS, & HARDENERS (continued)

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HARDENERS

House of Kolor's Hardeners are specifically designed to be used in our urethane kandys, klears, and sealers. They're designed with the specific hydroxyl groups needed for proper cross-linking with our resins used in the manufacturing of our products.

NEVER USE OTHER MANUFACTURERS' HARDENERS WITH HOUSE OF KOLOR® PRODUCTS. THEY ARE NOT FORMULATED TO WORK WITH THE EXOTIC RESINS WE USE TO PRODUCE THE HIGH QUALITY KUSTOM FINISHES THAT ARE DESIGNED FOR THE EXTREME PERFORMANCE REQUIREMENTS OF KUSTOM FINISHING.

- KU100 Catalyst was designed for areas where VOC compliance is not an issue. It is a faster curing activator.
- KU150 Exempt Catalyst was designed to meet all VOC regulations. This is a medium curing activator.
- KU151 Exempt Hi-Temp Flo-Catalyst was designed to meet all VOC regulations. It is an excellent activator where high humidity and temperatures are present and also greatly improves flow out of our clears. This is an excellent choice where larger objects are being finished, as well as being used in the final flow coating of clears. This is a slower curing version of our KU150.

NOTE: With the exception of your sealer, never use a slower curing hardener in a finish or underneath a finish using a faster curing hardener.

Example: Using KU151 in the kandy and then KU100 in the clear. This could cause solvent to become trapped in the overall finish.

KU100 Catalyst	KU150 Exempt Catalyst	KU151 Exempt Hi-Temp Flo-Catalyst
<ul style="list-style-type: none">• UK Kandy's• UC35 Klear (for 3.5 VOC compliance)• UFC35 Klear (for 4.3 VOC compliance)• UC01 Klear• UFC01 Flo-Klear	<ul style="list-style-type: none">• UK Kandy's• UC35 Klear• UFC35 Klear• UFC19 Klear• UCC01 Klear• UC01 Klear• UFC01 Flo-Klear• Ko-Seal® II Sealers	<ul style="list-style-type: none">• UK Kandy's• UC35 Klear• UFC35 Klear• UFC19 Klear• UCC01 Klear• UC01 Klear• UFC01 Flo-Klear

KNOW AND UNDERSTAND YOUR LOCAL VOC LAWS BEFORE CHOOSING THE REDUCERS AND HARDENERS THAT WILL BE USED IN YOUR PAINT JOB.