



GENERAL INFORMATION

ADHERETO® Adhesion Promoter is designed to create a bond between a substrate and a coating. Apply Adhereto® before applying topcoats to ensure proper adhesion of automotive paint to: plastics, brass, aluminum, metal or chrome. Adhereto® is easy to use and dries in minutes. Ready to spray right out of the can (no reduction required).



PREPARATION

Clean substrate of all contamination such as dirt, oil, grease and mold release agents, with isopropyl alcohol or KC20 Post Sanding Cleaner. Dry thoroughly after cleaning. Scuff using a maroon scuff pad.



MIXING RATIO

Ready-to-spray



GUN SET UP

Refer to Spray Gun manufacturer's settings.



APPLICATION

Apply Adhereto® with a dry film thickness of one medium coat.

WARNING: Proper coat thickness is critical for good adhesion properties. With adhesion promoters, more is not better. Carefully monitor coat thickness. Topcoats must be applied immediately after the Adhereto® coat has dried, usually within 2 to 3 minutes not to exceed 5 minutes at 70°F. Adhereto® acts as a clear adhesive primer providing a bond for topcoats.

NOTE: If Adhereto® completely dries, it must be reapplied prior to top-coating.



CLEAN UP

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



TECHNICAL DATA

For USA (National Rule & Low VOC)/Canada

RTS Regulatory Data	AP01	
	Ready-For-Use	
	LBS/GAL	g/L
Actual VOC	0.70 Max	85 Max
Regulatory VOC (less water & exempt solvents)	4.5 Max	540 Max
Density	7 - 9	840 - 1080
	Weight %	Volume %
Total Solid Content	2 - 7	2 - 7
Total Volatile Content	93 - 98	93 - 98
Water	0	0
Exempt Compound Content	85 - 95	85 - 95
Category	Specialty Coating / Adhesion Promoter	

Note: US/Canadian regulations allow for the use of exempt compounds for VOC calculations.



TECHNICAL DATA CONTINUED

FOR REST-OF-WORLD

RTS Regulatory Data	AP01	
	Ready-For-Use	
	LBS/GAL	g/L
VOC	8.8 Max	1060 Max
Density	7 - 9	840 - 1080
	Weight %	Volume %
Total Solid Content	2 - 7	2 - 7
Total Volatile Content	93 - 98	93 - 98
Water	0	0
Category	Specialty Coating / Adhesion Promoter	

Note: Rest-of-World considered areas outside US/Canada.

HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

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.

If used as instructed, this product is designed to comply with VOC standards in low-VOC jurisdictions. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.

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GENERAL INFORMATION

AX02 Kosmic Kicker is an accelerator for USC01 & UKK01. AX02 can be used on small parts to reduce dry times and increase production. When used properly, you will not sacrifice on appearance. AX02 is not a cure all for a cold shop and should not be used on larger projects such as a complete car.

NOTE: AX02 will shorten all working times including pot life, flash time, recoat and through cure.



POT LIFE

The addition of AX02 will shorten the potlife of any product.



MIXING RATIO

MIXED URETHANE	KOSMIC KICKER
8 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.



COMPONENTS

- AX02 Kosmic Kicker
- USC01 Kosmic Urethane Show Klear
- UKK01 Urethane Kandy Karrier



APPLICATION

See individual tech data sheets for application instructions

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GENERAL INFORMATION

Design your own one of a kind custom paint with our DP Series pearls. These pearls perform the best when mixed with Shimrin2® products S2-SG100 Intercoat or S2-00 Trans Nebulae. **PEARLS MUST BE VIEWED IN SUNLIGHT TO SEE MAXIMUM EFFECT.** The pearls' high intensity make them a great choice to use over white bases or solid colors for eye catching effects in sunlight.



PREPARATION

Read "TECH PREP" thoroughly before you begin painting. Pearls are very susceptible to staining or bleeding from plastic fillers, putties, fiberglass resins, and some primers.



SUBSTRATE

- Base Coats
- Properly prepared OEM finishes



COMPONENTS

- DRY PEARLS (DP)



MIXING RATIO

Add DP Series Pearls to ready-to-spray mixtures of the following and apply over the base color.

- S2-00
- S2-SG100

NOTE: Refer to product data sheet for final mixing ratios.

PEARL AMOUNT - PER SPRAYABLE MIXED QUART		
TYPE OF PEARL	FOR DARK BASE	FOR LIGHT BASE
DRY PEARL	0.10 – 0.25 oz (1/4 – 1 tsp)	0.25 – 0.5 oz (1 – 2 tsp)

NOTES:

- Always do a test panel to gauge the coverage and color. You may need increase or decrease pearl to achieve the proper coverage.
- The size of the object being painted will also dictate the amount of pearl. Larger objects require less pearl than smaller ones. On large objects, start low and add additional pearl slowly. Too much pearl will reduce the iridescent effect due to overcrowding of the pearl, and may cause mottling or streaking. Apply more coats instead of mixing the pearl too strong.
- When applying pearl over a dark base, do not add too much pearl concentrate as mottling or streaking can occur quite easily. Apply more coats instead of mixing the pearl too strong.



GUN SET UP

Refer to manufacturers information for gun set up recommendations



APPLICATION - PEARL CONCENTRATES

- Refer to Product data sheet.



NOTE: Be sure that your spray equipment and environment are very clean and the spray pattern is correct. An uneven spray gun pattern will make proper application impossible. Apply enough coats to achieve the effect you desire. Then apply Kandy or Klear coats.



HEALTH AND SAFETY

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GENERAL INFORMATION

Our line of flakes is another creative tool for the Kustom painter, and will enhance the uniqueness of any House of Kolor paint job. Offered in 5 grain sizes, our flakes combine an ultimate look, with ease of use. The mini and ultra-mini flakes have the brilliance of much larger flakes, and are an excellent choice for eye catching effects.


SUBSTRATE

- All Shimrin2 House of Kolor Products
 - Properly cured and prepared OEM finishes
- NOTE:** Please refer to individual product tech sheets for proper system applications


COMPONENTS

FLAKE AMOUNT - PER SPRAYABLE MIXED QUART				
ITEM NUMBER	DESCRIPTION	MIN. NOZZLE SIZE	DARK BASE	LIGHT BASE
F14.CO01	RAINBO (1/64)	1.8	4 - 12 Tbls	12 Tbls
F15.CO01	SILVER (1/64)	1.8	4 - 12 Tbls	12 Tbls
F16.CO01	LITE GOLD	1.5	1 - 3 Tbls	3 Tbls
F17.CO01	DARK GOLD	1.5	1 - 3 Tbls	3 Tbls
F18.CO01	ORANGE	1.5	1 - 3 Tbls	3 Tbls
F19.CO01	APRICOT	1.5	1 - 3 Tbls	3 Tbls
F20.CO01	RED	1.5	1 - 3 Tbls	3 Tbls
F21.CO01	FUCHIA	1.5	1 - 3 Tbls	3 Tbls
F22.CO01	ROYAL BLUE	1.5	1 - 3 Tbls	3 Tbls
F23.CO01	GREEN	1.8	4 - 12 Tbls	12 Tbls
F24.CO01	ABALONE	1.5	1 - 3 Tbls	3 Tbls
F25.CO01	SMOKE	1.8	3 - 9 Tbls	9 Tbls
F28.CO01	KAMEN BLUE	1.8	3 - 9 Tbls	9 Tbls
F31.CO01	RICH GOLD	1.8	3 - 9 Tbls	9 Tbls
F32.CO01	FIREBALL	1.5	1 - 3 Tbls	3 Tbls
F33.CO01	FINE RAINBO	1.5	1 - 3 Tbls	3 Tbls
F34.CO01	PINK ROSE	1.8	3 - 9 Tbls	9 Tbls
F61.CO01	MINI KAMEN BLUE	1.5	1 - 3 Tbls	3 Tbls
F64.CO01	MINI RICH GOLD	1.5	1 - 3 Tbls	3 Tbls
F65.CO01	MINI FIREBALL	1.5	1 - 3 Tbls	3 Tbls
F66.CO01	MINI PINK ROSE	1.5	1 - 3 Tbls	3 Tbls
F70.CO01	RED GOLD TRANS	1.5	1 - 3 Tbls	3 Tbls
F71.CO01	GREEN GOLD TRANS	1.5	1 - 3 Tbls	3 Tbls
F72.CO01	BLUE GREEN TRANS	1.5	1 - 3 Tbls	3 Tbls
F73.CO01	VIOLET RED TRANS	1.5	1 - 3 Tbls	3 Tbls
F74.CO01	GREEN TO PURPLE	1.5	4 - 6 Tbls	6 Tbls

MF01.C01	GOLD MINI FLAKE	1.4	1 - 3 Tbls	3 Tbls
MF02.C01	SILVER MINI FLAKE	1.4	1 - 3 Tbls	3 Tbls
UMF01.C01	ULTRA GOLD MINI	1.3	1 - 3 Tbls	3 Tbls
UMF02.C01	ULTRA SILVER MINI	1.3	1 - 3 Tbls	3 Tbls
UMF03.C01	ULTRA RAINBO MINI	1.4	1 - 3 Tbls	3 Tbls
UMF04.C01	ULTRA RAINBO MINI	1.3	1 - 3 Tbls	3 Tbls



MIXING RATIO

Refer to table on previous page, and appropriate product Technical Data Sheet.



IMPORTANT MIXING FLAKES AND GUN SET UP NOTES

- With a gravity feed gun, remove flakes between coats, simply stir and add for next coat or purchase an agitator gun cup.
- Do not apply Flake with an Air Brush. (Will only Clog)
- Use slow reducer for better flow and leveling.
- Flakes may be added to any of the House of Kolor intercoats, or Shimrin2 basecoat products.
- If a full flake look is desired, be sure your base color is similar to the flake color. Preferable 4-5 shades darker than the flake, to create the illusion of coverage in 2 coats.



APPLICATION

WHEN USING LARGE FLAKES – BE SURE YOUR SPRAY GUN HAS A LARGE ENOUGH FLUID TIP TO ALLOW PASSAGE OF THE FLAKE. Strain the ready to spray mixture, then add the flake. Apply 1-2 medium coats with 75% pattern overlap, at 4-5 inches of spraying distance. If spray distance is too great, dry spray can occur, which will be difficult to smooth out. Walk the side of long objects. Allow 15-30 minutes flash between coats. Applying 3 or more coats of flake will greatly increase the roughness of the finish, and require more clear and sanding to smooth out.

NOTES:

- Always do a test panel to gauge the coverage, color, and roughness. You may need additional flake to achieve the proper coverage.
- Stir spray mixture before applying next coat
- Once satisfied with the flake coverage, spray 3 coats of HOK Shimrin2 Clear, allow clear to dry overnight, dry sand 320 / wet sand with 600 (When Sanding the initial three coats pay close attention to your sanding to prevent burn through)
- If no other additions are desired then apply final 2 to 3 coats of HOK Shimrin2 Clear.



KANDY COAT (OPTION)

See appropriate tech sheet for Kandy application.



KLEAR COAT

See appropriate tech sheet for Klear Coat application.

HEALTH AND SAFETY

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GENERAL INFORMATION

Ice Pearl glass flake pigments go beyond traditional pearls in brightness of color, transparency, and reflectivity. They have brightness and sparkle under sunlight conditions. Ice Pearl works best in S2-00 Trans Nebulae & S2-SG100 intercoat. They are an excellent base for Kandy finishes, giving a brilliant glitter effect. Blends of Ice Pearl pigments give true multicolor effect, showing the individual colors of the pearl used in the blend. Ice Pearl gives the custom painter additional creativity to design "one of a kind" custom finishes.

COMPONENTS

- S2-00
- S2-SG100
- IP Series
- RU Reducers

Note: See Appropriate TDS for products above.



MIXING RATIO

Add Ice Pearl to mixed ready to spray S2-00 or S2-SG100 mixture & apply over the base coat. The color of your base will determine how much pearl you use. The following information is a guide for proper mixing:

For Dark Base:

Mix 0.25 – 0.5 oz (1 - 2 tsp) per mixed quart of base.

For Light Base:

Mix 0.75 – 1 oz (3 – 4 tsp) per mixed quart of base.

ICE PEARL AMOUNT - PER SPRAYABLE MIXED QUART		
TYPE OF PEARL	FOR DARK BASE	FOR LIGHT BASE
DRY PEARL	0.25 – 0.5 oz (1 - 2 tsp)	0.75 – 1 oz (3 – 4 tsp)



GUN SET UP

Refer to Spray Gun Manufacturer's settings.



APPLICATION

- Apply 2-4 medium (almost wet) coats, with 75% pattern overlap, and gun distance should be 5-6 inches
- Walk long objects, and allow flash time between coats.

NOTES:

- Always do a test panel to gauge the coverage, and color. You may need to adjust Ice Pearl to achieve the proper coverage.
- The size of the object being painted will also dictate the amount of Ice Pearl. Too much Ice Pearl will reduce the iridescent effect due to overcrowding of the Ice Pearl, and may cause mottling or streaking. Apply more coats instead of mixing the Ice Pearl too strong.
- During Spray application use bright light to monitor intensity of Ice Pearl.

HEALTH AND SAFETY

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GENERAL INFORMATION

KC10 WAX & GREASE REMOVER removes grease, wax, silicone, adhesives, tar, tree sap, insects and dirt. KC10 is a quick flashing product designed to speed initial surface prep before sanding and body work. Don't apply more than you can wipe clean before KC10 dries, or no contaminants are removed. (Wiping cloths become contaminated, change regularly and dispose of properly).



USING KC10

KC10 is to be used over unsanded surfaces and OEM finishes. DO NOT USE KC10 over polyester fillers, primers, sealers, or during any step of paint application. **SURFACE PREP CLEANER ONLY.** For Low VOC areas use KC20.



APPLICATION

- Ready-To-Use
- Wash surface with mild detergent and water.
- Rinse and dry surface.
- Soak clean cloth with KC10.
- Wipe surface with KC10 and wipe dry with clean, dry cloth before product dries.

Note: KC10 should not be allowed to dry on surface. If this occurs, re-apply KC10 using a clean cloth and wipe dry

TECHNICAL DATA

FOR USA (National Rule)

RTS Regulatory Data	KC10	
	Ready-For-Use	
	LBS/GAL	g/L
Actual VOC	6.43 Max.	770 Max.
Regulatory VOC (less water & exempt solvents)	6.43 Max.	770 Max.
Density	6 - 8	720 - 960
	Weight %	Volume %
Total Solid Content	0	0
Total Volatile Content	100	100
Water	0	0
Exempt Compound Content	0	0
Category	Surface Cleaner	

FOR REST-OF-WORLD

RTS Regulatory Data	KC10	
	Ready-For-Use	
	LBS/GAL	g/L
VOC	6.43 Max.	770 Max.
Density	6 - 8	720 - 960
	Weight %	Volume %
Total Solid Content	0	0
Total Volatile Content	100	100
Water	0	0
Category	Surface Cleaner	

Note: ROW considered areas outside US/Canada.



KC10
WAX & GREASE REMOVER
(NATIONAL RULE ONLY)

HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

If used as instructed, this product is designed to comply with the US and Canadian National Volatile Organic Compound (VOC) Emission Standard for Automobile Refinish Coatings. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option

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GENERAL INFORMATION

KC20 POST SANDING CLEANER removes sanding residue as well as dirt, hand oils, and other light contaminants. KC20 will also reduce static when used on plastic and fiberglass parts. KC20 is designed for use in initial and final surface preparation. However before sanding existing finish KC10 should be used first (National Rule Only). **Refer to instructions for KC10 Wax and Grease Remover.**



USING KC20

KC20 is to be used over sanded surfaces, OEM finishes, sanded primers, cured sealers, fresh base coats, Pin Stripes, Air Brush Art, and other sensitive surfaces.



APPLICATION

- Ready-For-Use
 - Wash surface with mild detergent and water
 - Rinse and dry surface
 - Soak clean cloth with KC20
 - Wipe surface with KC20 and wipe dry with clean, dry cloth before product dries.
- KC20 should not be allowed to dry on surface.** If this occurs, re-apply KC20 using a clean cloth and wipe dry.

NOTE: KC20 is the only cleaner recommended for cleaning Shirin2® base coats prior to top coating.

TECHNICAL DATA

FOR USA (National Rule & Low VOC) / Canada

RTS Regulatory Data	KC20	
	Ready-For-Use	
	LBS/GAL	g/L
Actual VOC	0.2 Max.	25 Max.
Density	7 - 9	840 - 1080
	Weight %	Volume %
Total Solid Content	0	0
Total Volatile Content	100	100
Water	95 - 99	95 - 99
Exempt Compound Content	0	0
Category	Surface Cleaner	

Note: US/Canadian regulations allow for the use of exempt compounds for VOC Calculations.

FOR REST-OF-WORLD

RTS Regulatory Data	KC20	
	Ready-For-Use	
	LBS/GAL	g/L
VOC	8.0 Max.	960 Max.
Density	6 - 8	720 - 960
	Weight %	Volume %
Total Solid Content	0	0
Total Volatile Content	100	100
Water	0	0
Category	Surface Cleaner	

Note: ROW considered areas outside US/Canada.



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GENERAL INFORMATION

The first steps in any project are important to the overall success. The primer or foundation of your House of Kolor paint project is this first step. Our products are engineered to work as a complete system. The solvent and resin systems in House of Kolor are dramatically different from regular aftermarket automotive finishes.

House of Kolor is designed to apply numerous coats or layers to achieve a dramatic finish that "Looks a Mile Deep". It is critical not to mix other manufacturer's products in your House of Kolor paint project. The KD3000 Series is a hybrid epoxy, two component primer system, designed to be used as Direct to Substrate (DTS) High Build Surfacer, Medium Build Surfacer/Higher build sealer or silky smooth Sealer. Available in 6 colors, this primer series can be intermixed to produce a wide range of colors. The KD3000 Series is an industry first and undisputedly the best foundation system available, with excellent adhesion, corrosion resistance, productive dry times, and ease of sanding. These DTS surfacers/sealers emit very low amounts of Volatile Organic Compounds (VOCs), Hazardous Air Polluting Solvents (HAPS), and contain no isocyanates. The KD3000 Series DTS Surfacers/Sealers may be applied to the existing OEM finish, bare steel, aluminum, fiberglass, galvanized surfaces, and various plastics. Its tenacious adhesion, hi-build capabilities, excellent durability, corrosion resistance, and ease of sanding make it a superior choice for a long lasting custom paint job.

IMPORTANT NOTES

- DO NOT USE ANY ACID BASED PRODUCTS SUCH AS SELF-ETCHING PRIMERS, ETC. UNDER THE KD3000 SERIES DTS SURFACERS/SEALERS. THIS MAY AFFECT ADHESION.
- IF YOU FIND IT NECESSARY TO USE A METAL CONDITIONER TO REMOVE RUST, ETC., BE SURE TO THOROUGHLY CLEAN AND NEUTRALIZE THE TREATED AREA FOLLOWING THE CONDITIONER MANUFACTURERS RECOMMENDATIONS. THEN USE OUR KC20 POST SANDING CLEANER WITH A MAROON SCUFF PAD TO INSURE ALL ACID RESIDUE HAS BEEN REMOVED BEFORE PRIMING IF NOT, THIS MAY AFFECT ADHESION.
- IN CUSTOM PAINTING, IT IS NOT UNCOMMON TO EXPERIENCE POLYESTER STAINING FROM BODY FILLERS, GLAZING PUTTIES, AND FIBERGLASS RESINS. THE KD3000 SERIES DTS SURFACERS/SEALERS ARE DESIGNED TO PREVENT THIS STAINING PROBLEM AS LONG AS THE FILLERS/PUTTIES ARE MIXED AND APPLIED PROPERLY, AND THE AFTER SANDING FILM BUILD REMAINS AT LEAST 2 MILS.



SUBSTRATE

Properly Prepared:

- Original finish
- Ferrous and non-ferrous metals
- Fiberglass and composites
- Plastics (Pre-test adhesion and compatibility)
- Body Fillers



SANDING THE SUBSTRATE

Bare metal

- Minimum 80P grit DA sandpaper

Body fillers

- Minimum 80P

OEM Finish

- 320P dry or 500 wet



COMPONENTS

- | | |
|--------------|--|
| • KD3000 | DTS Surfacer/Sealer Gray |
| • KD3001 | DTS Surfacer/Sealer Black |
| • KD3002 | DTS Surfacer/Sealer White |
| • KD3003 | DTS Surfacer/Sealer Yellow |
| • KD3004 | DTS Surfacer/Sealer Red |
| • KD3005 | DTS Surfacer/Sealer Blue |
| • KDA3000 | DTS Hardener |
| • 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°F to 100+°F |
| • HOK1052015 | Color Check Panel |

Note: HOK1052015 Color Check Panel is a must have color tool. This innovative spray-out panel consists of 62 KD3000 Series DTS color variations. Color styling has never been faster. Simply apply basecoats over the panel to achieve an instant library of colors and effects.



PREPARATION

The surface to be primed should be free of wax, grease, rust, etc. **IMPORTANT:** Clean with KC10 prior to sanding. Do not apply KD3000 Series DTS Surfacer/Sealers over uncatalyzed primers. KD3000 Series DTS Surfacer/Sealers may be applied over properly prepared OEM factory primers and finishes, but for maximum adhesion and corrosion protection it is best to apply them directly to the properly prepared bare substrate.



MIXING RATIO

**For 2.1 lb/gal (250 g/L) VOC Compliance (Low VOC & National Rule) - (4:1 by volume)
High Build Surfacers**

- 4 parts KD3000 Series DTS Surfacers/Sealers
- 1 part KDA3000 DTS Hardener

**For 4.6 lb/gal (550 g/L) VOC Compliance (US National Rule) - (4:1:1 by volume)
Medium Build Surfacers / High Build Sealer**

- 4 parts KD3000 Series DTS Surfacer/Sealer
- 1 part KDA3000 DTS Hardener
- 1 part RU310 – 313 Reducers

**For 2.1 lb/gal (250 g/L) VOC Compliance (Low VOC) - (4:1:1 by volume)
Medium Build Surfacers / High Build Sealer**

- 4 parts KD3000 Series DTS Surfacer/Sealer
- 1 part KDA3000 DTS Hardener
- 1 part RU300 or RU301 Exempt Reducers

**For 4.6 lb/gal (550 g/L) VOC Compliance (US National Rule) - (4:1:2 by volume)
Sealer**

- 4 parts KD3000 Series DTS Surfacer/Sealer
- 1 part KDA3000 DTS Hardener
- 2 parts RU310 – 313 Reducers

**For 2.1 lb/gal (250 g/L) VOC Compliance (Low VOC) - (4:1:2 by volume)
Sealer**

- 4 parts KD3000 Series DTS Surfacer/Sealer
- 1 part KDA3000 DTS Hardener
- 2 parts RU300 or RU301 Exempt Reducers

Notes:

- Reducer selection should be based on the size of the area to be painted, air movement, and temperature. For example, start and run your spray booth prior to checking temperature. Then match the RU reducer for those conditions. KD3000 Series Kustom DTS Foundation Surfacers/Sealer is a catalyzed, two component system. Mix the KD3000 Series primers thoroughly before activating or reducing. Use a paint shaker for best results. Always measure, do not guess. Thoroughly stir your ready-to-spray mixture to insure optimal coatings performance. No induction (sweat in) time is required. Shop conditions can affect pot life.
- Do not exceed high build recommendations.



DRY TIME

Used as a High Build /Medium Build Surfacers

At 70°F, allow to cure approx. 90-120 minutes before sanding. If you exceed more than 3 coats, the cure time may be longer. For higher production you can bake the surfacer at 140°F for 30 minutes. Allow the surfacer to flash 15 minutes prior to baking with a 30 minute cool down prior to sanding. Overnight dry time is best.

Used as a Sealer

Sealers are designed to create a chemical bond between the surfacer and the base coat. Allow the sealer to dry 15-30 min. but not to exceed 4 hours prior to top coating. Thoroughly sand sealed surfaces with 500 to 600 wet sand paper if top coating window extends more than 4 hours.

Note: Flash and Dry Times will be longer in cool temperatures, slow air movement or when applied in heavier coats.



FINISH SANDING

Used as a High Build /Medium Build Surfacers

- Initial Block Sanding
- 100P to 150P grit dry sandpaper
- Finish Sanding
- Dry Sandpaper = 280P to 320P grit (CAMI grade = 240 to 280 grit)
- Wet Sandpaper = 400 to 500 grit (FEPA grade 600P to 800P grit)
- Tight Areas (door jams, etc.) = Maroon scuff pad

Notes:

- To prevent bleeding or discoloration of base coats caused by body fillers, at least 2 mils of primer must remain after sanding. (1 coat equals approximately 1 mil when sprayed with production equipment using 4:1 mixing ratio).
- If body filler is exposed. Re-prime with KD3000 to prevent staining.
- May dry sand KD3000 with 100 or 150 grit, then re-prime with 2 or 3 more coats of KD3000. KD3000 may also be wet sanded.
- REFER TO SANDING GRIT MANUFACTURER RECOMMENDATIONS.



APPLICATION

Used as a High Build/Medium Build Surfacers

Strain mixture. Apply 2 to 3 full wet coats with a 50% pattern overlap. Apply an additional 2 full wet coats over polyester fillers and spot and glazing putties. Allow flash time between coats (flashes dull approx. 10 to 15 minutes).



Used as a Sealer

Strain mixture. Apply 1 to 2 Medium Wet Coats with a 50% pattern overlap. Allow flash time between coats (flashes dull, approx. 5 to 15 minutes).



GUN SET UP

Refer to Spray Gun Manufacturer's settings.



CLEAN UP

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



TECHNICAL DATA

FOR USA (National Rule & Low VOC) / Canada

RTS Regulatory Data	4 : 1		4 : 1 : 1		4 : 1 : 1		4 : 1 : 2		4 : 1 : 2	
	No Reduction		RU310-313 Series Reducers		RU300 & 301 LV Series Reducers		RU310-313 Series Reducers		RU300 & 301 LV Series Reducers	
	LBS/GAL	g/L	LBS/GAL	g/L	LBS/GAL	g/L	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	1.3 Max.	158 Max.	3.2 Max.	380 Max.	1.1 Max.	133 Max.	3.4 Max.	407 Max.	0.95 Max.	115 Max.
Regulatory VOC (less water & exempt solvents)	2.1 Max.	250 Max.	4.6 Max.	550 Max.	2.1 Max.	250 Max.	4.6 Max.	550 Max.	2.1 Max.	250 Max.
Density	11 - 13	1320 - 1560	11 - 13	1320 - 1560	11 - 13	1320 - 1560	11 - 13	1320 - 1560	11 - 13	1320 - 1560
	Weight %	Volume %	Weight %	Volume %	Weight %	Volume %	Weight %	Volume %	Weight %	Volume %
Total Solids Content	57 - 61	42 - 46	50 - 54	35 - 39	50 - 54	35 - 39	46 - 50	30 - 34	42 - 46	30 - 34
Total Volatile Content	39 - 43	54 - 58	46 - 50	61 - 65	46 - 50	61 - 65	50 - 54	66 - 70	54 - 58	66 - 70
Water	0	0	0	0	0	0	0	0	0	0
Exempt Compound Content	30 - 34	37 - 41	27 - 31	31 - 35	40 - 44	47 - 51	24 - 29	26 - 30	47 - 51	54 - 58
Category	Primer Surfacers / Sealers									

Note: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations.



TECHNICAL DATA CONTINUED

FOR REST-OF-WORLD

RTS Regulatory Data	4 : 1		4 : 1 : 1		4 : 1 : 2	
	No Reduction		RU310-313 Series Reducers		RU310-313 Series Reducers	
	LBS/GAL	g/L	LBS/GAL	g/L	LBS/GAL	g/L
VOC	5.6 Max.	675 Max.	6.5 Max.	780 Max.	7.0 Max.	840 Max.
Density	11 - 13	1320 - 1560	11 - 13	1320 - 1560	11 - 13	1320 - 1560
	Weight %	Volume %	Weight %	Volume %	Weight %	Volume %
Total Solids Content	57 - 61	42 - 46	50 - 54	35 - 39	46 - 50	30 - 34
Total Volatile Content	39 - 43	54 - 58	46 - 50	61 - 65	50 - 54	66 - 70
Water	0	0	0	0	0	0
Category	Primer Surfacer / Sealer					

Note: ROW considered areas outside US/Canada.

HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

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.

If used as instructed, this product is designed to comply with VOC standards in low-VOC jurisdictions. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.

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GENERAL INFORMATION

At last a fisheye additive that does not need to be used in every coat. Use KE170 to correct fisheye or crater defects. Works with lacquer, urethane, polyurethane, acrylic urethane, acrylic enamel, etc. A must have product for your paint shop.



MIXING RATIO

Clear

Add 0.1 Oz (2.5 grams) Krator Eliminator per mixed quart.

HEALTH AND SAFETY

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GENERAL INFORMATION

Kandy Concentrates (KK) are innovative products that help House of Kolor continue to be market leaders, and now are a great way to tint our next generation Shimrin2 products like S2-00 Trans Nebulae, S2-SG100 Intercoat, and UKK01 Urethane Kandy Karrier.

- Strengthen Kandy Basecoats for faster coverage on frames, door jambs, under trunk and hood areas, etc.
- Great for small motorcycle parts or jobs that need to be finished quickly.

INFORMATION ABOUT KK'S

- Always use S2-00 Trans Nebulae or S2-SG100 Intercoat before any artwork is applied. See tech sheets for more information.
- A catalyzed clear coat will not stop color bleed/leaching, but multiple applications of clear (2 or more with proper flash time) will help reduce it. Do individual testing.
- Kandy Concentrates (KK) must be intermixed with other House of Kolor products and cannot be applied as packaged. See appropriate tech sheets for more information.
- The KK products that have a tendency to bleed are: KK03, KK05, KK06, KK10, and KK13.
- Do not store uncatalyzed UKK01/KK blends for more than 24 hours. Seeding will occur if mixture sits longer than 12 hours.

KEY INFORMATION ABOUT KK18 KANDY PINK

- KK18 Kandy Koncentrate Pink has limited light fastness and should only be used on products that have limited exposure to sunlight. Use with discretion. KK18 is recommended for show vehicles.

HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

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.

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GENERAL INFORMATION

Depending on use and sun exposure, light fastness on some colors will be limited. The glow effect continues even if the color fades. The Kosmic Long-Glo has demonstrated better light fastness than the Kosmic-Glo® when applied over a white base. We recommend using Kosmic Long-Glo with discretion - even though the color may change with time and exposure, the Glow-in-the-Dark feature remains for a long time. This product appears milky white during daylight and only shows the glo color at night.

NOTE: KOSMIC LONG-GLO IS NOT RECOMMENDED FOR OVERALL REFINISHING.



SUBSTRATE

- S2-26 Bright white

Maximum glow occurs when Kosmic Long-Glo is applied over a white base. We recommend using our S2-26. Other colors/bases (such as Pearls, Kandys, Neons, Solid Kolors, etc.) may be used for unusual effects, but glow time will be less.



COMPONENTS

- KLG100 - Green
- KLG102 - Blue



MIXING RATIO

Add KLG – KOSMIC LONG-GLO powders to ready-to-spray mixtures of S2-00 or S2-SG100, and apply over the base color. Finish the job with one of our House of Kolor clears.

KLG – KOSMIC LONG-GLO AMOUNT – PER MIXED PINT		
TYPE OF POWDER	S2-00	S2-SG100
KLG - KOSMIC LONG-GLO	2 - 4 oz.	2 - 4 oz.



GUN SET UP

Refer to manufacturers information for gun set up recommendations



APPLICATION

- Apply 3 coats using a 75% pattern overlap when spraying.
- Allow plenty of flash time between coats.
- Clear with House of Kolor USC01.
- For best glow time, apply over a white base.

GLOW TIME: Maximum excitation for Kosmic Long-Glo is UV light (Both long and short), daylight and artificial light (Tungsten fluorescent lamps). Sodium vapor or I.R. light sources are unsuitable. Glow time will vary based on application, base color and light exposure. Maximum glow time is 4 - 12 hours, based on the intensity of the excitation energy.

NOTE: Be sure that your spray equipment and environment are very clean and the spray pattern is correct. An uneven spray gun pattern will make proper application impossible. Apply enough coats to achieve the effect you desire. Then apply Kandy or Klear coats.



CLEAN UP

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



KLG - KOSMIC LONG-GLO
PHOSPHORESCENT GLOW-IN-THE-DARK POWDER

HEALTH AND SAFETY

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GENERAL INFORMATION

House of Kolor® uses only the finest ingredients in its Kosmic Reducers & Catalysts, and our quality shines through. Our reducers leave the paint film in the proper stages, providing excellent flow out, and maintaining outstanding gloss. Our catalysts are designed to provide proper cross-linking with our resins, giving excellent chemical, fuel, and water resistance to your House of Kolor® project. We recommend that you use only our high quality reducers and catalysts in your House of Kolor® projects. **DO NOT USE OTHER MANUFACTURERS REDUCERS OR CATALYSTS.**

REDUCERS

Kosmic Reducers – RU300 & 301 LV Exempt Reducers, and RU310 – RU313 Series Reducers – are the only reducers we recommend for use with House of Kolor® products. Use with all Shimrin2® products.

NOTE: When choosing a reducer, you should consider the size of the object being painted, shop temperature and humidity, and air movement.

**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.

LV Exempt Series Reducers		Standard Series Reducers				
RU300	RU301	RU310	RU311	RU312	RU313	RU315
70 - 85°F	85 – 100+°F	65 – 75 °F	75 – 85 °F	85 – 95 °F	95 – 100+°F	95 – 100+°F
Exempt reducers to meet Low VOC Regulations.		Generally used on smaller objects for touch-ups, on larger objects, and with Intercoat products to speed up 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 large objects. Also used in very warm & humid conditions, to increase flow time and leveling.	In extremely hot and humid conditions, use RU315 Retarder (up to 10% replacement for other reducers)

Note: The RU315 is an additive, not a reducer. May be added to slow dry times, or for force drying. The reducers may be mixed for varying conditions. **DO NOT MIX KOSMIC REDUCERS WITH REDUCERS MADE BY OTHER MANUFACTURERS.**

CATALYSTS

House of Kolor® catalysts are specifically designed to be used in our urethane products. They are designed to provide proper cross-linking with our resins, giving excellent chemical, fuel, and water resistance to your House of Kolor® project. Use with all Shimrin2 products. **NEVER USE OTHER MANUFACTURERS CATALYSTS WITH HOUSE OF KOLOR® PRODUCTS.**

Low VOC Compliant Catalyst
KU152
Exempt catalyst designed to meet all VOC regulations, and with the next generation Shimrin2® performance in mind.
UKK01 Kandy Karrier UCR01 Rokket Klear USC01 Show Klear SS01 Silver Sealer

NOTE: NEVER TOPCOAT A FINISH WITH A FASTER CURING CATALYST THAN THE ONE USED IN THE FINISH UNDERNEATH. THIS COULD CAUSE SOLVENT TO BE TRAPPED IN THE OVERALL FINISH. USE CATALYSTS WITH SIMILAR SPEEDS.



SHIMRIN2 KOSMIC REDUCERS & CATALYSTS



MIXING

Always measure when mixing. For mixing ratios, please refer to the individual product instructions. **KNOW AND UNDERSTAND YOUR LOCAL VOC REGULATIONS BEFORE CHOOSING THE REDUCERS AND CATALYSTS FOR YOUR HOUSE OF KOLOR® PROJECT.**

HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

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.

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GENERAL INFORMATION

The Kosmic Krome Mirror Reflective Effect Base represents the application of revolutionary aluminum flake chemistry. Due to the unique nature of these pigments it is very easy to experience inconsistencies in the final appearance. The method of application is more technically challenging than conventional products and the preparation, substrate, and application process must be followed to the letter. The final result can be a beautiful and interesting finish that, when combined with other House of Kolor shimrin2 products, will extend your creative palette for years to come.

WARNING!

- Substrates other than recommended will “absorb” the MC00 base and it will appear grey and inconsistent.
- The use of sanding with grits not recommended, as it will result in a different appearance.
- Any variation of the surface will be magnified and may ruin the project.
- Rough paper towels or solvent-based cleaners will ruin your project when using MC00.
- Do not use competitive clears, bases, or primers.
- Assure that your spray gun is functioning properly. It is critical that application be even.
- Open the tack cloth completely and air dry for at least an hour to reduce stickiness. A sticky residue transfer will ruin a project.
- Always do a test panel, with the complete system, to test your application, spray gun function, effect, and your art plans, BEFORE you spray your project.
- Plan your artwork to apply this product last. This will maximize the “metal” effect.
- Do not apply S2-SG100 directly to MC00. When performing artwork over the MC00 first coat MC00 with the appropriate House of Kolor Clear, allow the clear to dry, sand, and continue.
- The Kosmic Krome® Mirror Reflective Effect Base is intended for artwork only and may be difficult to apply evenly on larger areas.
- Do not “oversell” your customers. The Kosmic Krome® Mirror Reflective Effect Base, even when applied correctly, will not match the shine, hardness, and reflectivity, of an actual plated surface.



SUBSTRATE

In order for Kosmic Krome® Mirror Reflective Effect Base to show the maximum effect, the substrate must be a fully dry, very smooth surface. The smoothness of the substrate will determine the appearance of the metal effect bases. Any scratch from sanding, wiping, or tacking will show through when MC00 is applied



PREPARATION

To get the maximum reflective effect, we recommend the MC00 be applied directly to a surface that has been color sanded, polished, and cleaned with KC20 and a soft towel. This procedure is required for the complete visual effect of these products, however; ONLY in this situation do we recommend this process. It is known that this process will diminish the integrity of the system. However, if the effect this product offers with what is required for your art plan, there is no replacement for the visual possibilities of this system.



COMPONENTS

The Kosmic Krome® Mirror Reflective Effect Base is provided ready to spray.



MIXING RATIO

Shake MC00 gently for 5 Minutes prior to use
For 7.5 lb/gal (900 g/L) (US NATIONAL RULE) - (Ready-For-Use)



APPLYING KOSMIC KROME® BASE (MC00)

Apply as little Kosmic Krome® Mirror Reflective Effect Base as is needed to achieve the desired effect. An example set up would be 1.3 fluid tip open 10-15% with a medium to fast transverse speed. Usually this will be 1-2 thin coats. Over application, including a “wet” type coat, will result in a total loss of effect. The reflective qualities of MC00 will not become visible until flash dry has occurred.

KANDY COAT (OPTIONAL)

The Kosmic Krome® Effect Bases may be Kandyed. See appropriate tech sheets for Kandy application. For artwork, our Kandy Koncentrates may be mixed with S2-SG100 Intercoat for Kandy graphics. See KK & S2-SG100 tech sheets for more information.

DRY TIME

Allow MC00 to dry for at least 12 hours at 70°F before applying House of Kolor Clearcoats. Up to 24 hour is OK; however, be careful to keep the job clean as aggressive tacking, wiping, or handling can ruin the finish by scratching or smudging the MC00.

ADDITIONAL INFORMATION

When clearcoating the Kosmic Krome Effect Base, special care must be taken to preserve the unique reflective qualities. Only use House of Kolor clearcoats as they are designed for the performance requirements associated with custom painting. Apply the first coat, with the appropriate catalyst/reducer combination, with a fine mist. Apply only enough clear to achieve flow in a thin flowing coat. Allow the first coat to flash thoroughly till it passes the "string" test. This is very important, as too wet a coat can cause a loss of effect. Apply the second coat as you would normally.

Note: The excessive build of true Kandy paintwork requires a very stable foundation. With the special process approved for the use of these "metal" Finishes comes a compromise in total system performance. The House of Kolor Kandy Koncentrate colors will look great when applied over the Kosmic Krome Mirror Reflective Effect Base; however, select the process and product sequence in an order that will minimize the amount of material that is applied over the Kosmic Krome Mirror Reflective Effect Base.

Note: Do not apply S2-SG100 directly to MC00. When performing artwork over the MC00, coat MC00 with the appropriate House of Kolor Clear first. Allow the clear to dry, sand, and continue.



TECHNICAL DATA

FOR USA (NATIONAL RULE)

RTS Regulatory Data	MC00	
	Ready For Use	
	LBS/GAL	g/L
Actual VOC	6.00 Max	720 Max
Regulatory VOC (less water and exempt solvents)	7.5 Max	900 Max
Density	7 - 9	840 - 980
	Weight %	Volume %
Total Solid Content	0.1 - 1	0.1 - 1
Total Volatile Content	99 - 99.9	99 - 99.9
Water	0	0
Exempt Compound Content	19 - 22	20 - 22
Category	Two Stage Topcoat	

Note: US Regulations allow for the use of exempt compounds for VOC calculations.

FOR REST-OF-WORLD

RTS Regulatory Data	MC00	
	Ready For Use	
	LBS/GAL	g/L
VOC	9.0 Max	1080 Max
Density	7 - 9	840 - 980
	Weight %	Volume %
Total Solid Content	0.1 - 1	0.1 - 1
Total Volatile Content	99 - 99.9	99 - 99.9
Water	0	0
Category	Two Stage Topcoat	

Note: ROW considered areas outside US/Canada.



MC00 KOSMIC KROME MIRROR REFLECTIVE EFFECT BASE (National Rule Only)

HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

If used as instructed, this product is designed to comply with the US National Volatile Organic Compound (VOC) Emission Standard for Automobile Refinish Coatings. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.

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GENERAL INFORMATION

The Kosmic Krome® Effect Base represents the application of revolutionary aluminum flake chemistry. Due to the unique nature of these pigments it is very easy to experience inconsistencies in the final appearance. The method of application is more technically challenging than conventional products and the preparation, substrate, and application process must be followed to the letter. The final result can be a beautiful and interesting finish that, when combined with other House of Kolor® products, will extend your creative palette for years to come.



SUBSTRATE

- KD3000 Series Reducers
- S2-SG100 Intercoat Clear (artwork only)



PREPARATION

Read "TECH PREP" thoroughly before you begin painting. Please be aware that Kosmic Krome® Effect Bases can be susceptible to staining or bleeding from plastic fillers, putties, fiberglass resins and some primers. To prevent staining, please refer to the tech pages on KP & KD epoxy primers.



COMPONENTS

MC01	ALUMINUM EFFECT
MC02	COPPER EFFECT
MC03	BRONZE EFFECT
MC04	GOLD EFFECT



MIXING RATIO

For 7.5 lb/gal (900 g/L) (US National Rule) - (Ready For Use)



GUN SET UP

Refer to spray gun manufacturer settings.



APPLICATION

For the colors MC01, MC02, MC03, & MC04, apply 2-3 light "mist", but not "dry", coats using a 75% pattern overlap when spraying. An example set up would be 1.3 fluid tip open 40-50% with a medium transverse speed. Allow to flash 5-10 minutes between coats.

DRY TIME

For the colors MC01, MC02, MC03, MC04, allow 15-60 minutes to dry and not longer than 12 hours before applying House of Kolor® Clearcoats.

ARTWORK & INTERCOAT (optional)

The Kosmic Krome Effect Bases, with their low solids, are an excellent choice for artwork paint jobs. DO NOT TAPE DIRECTLY ONTO THE KOSMIC KROME EFFECT BASES. If artwork is planned, apply 1 or 2 medium coats of S2-SG100 Intercoat. The clear coat will protect the Kosmic Krome Effect Bases from the tape marks and allow cleanup of mistakes. PLEASE REFER TO SANDING GRIT RECOMMENDATIONS FOR FINAL SANDING OF INTERCOAT. See tech sheet for more information on S2-SG100 Intercoat.

NOTE: DO NOT SAND The Kosmic Krome Effect Bases DIRECTLY. Apply S2-SG100 Intercoat Clear for base coat protection if sanding is required. If you directly sand the Kosmic Krome Effect Bases, you must re-base.

NOTE: S2-SG100 Intercoat is designed to protect the base coats for artwork tapeouts and blends only. DO NOT USE S2-SG100 AS A BUILD-UP OR TOPCOAT CLEAR, AS IT IS NOT WEATHER RESISTANT OR DESIGNED TO EXCEED 4 COATS. CAUTION: The Kosmic Krome® Effect Bases do not have any chemical resistance until cleared. Final wash solvents will remove base coats. Use KC20 Post Sanding Cleaner for cleanup



KANDY COAT (OPTIONAL)

The Kosmic Krome® Effect Bases may be Kanded. See appropriate tech sheets for Kandy application. For artwork, our Kandy Koncentrates may be mixed with S2-SG100 Intercoat for Kandy graphics. See KK & S2-SG100 tech sheets for more information



CLEAR COAT

The Kosmic Krome® Effect Bases **MUST BE CLEAR COATED**. Once a system is chosen, after the base coat, stay with that system. We recommend that you use House of Kolor® clears for best results. See appropriate tech sheets for more information on clear coat application.



CLEAN UP

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

TECHNICAL DATA

FOR USA (National Rule Only)

RTS Regulatory Data	MC01-04	
	Ready For Use	
	LBS/GAL	g/L
Actual VOC	6.4 Max	765 Max
Regulatory VOC (less water and exempt solvents)	7.50 Max	900 Max
Density	7 - 9	840 - 1080
	Weight %	Volume %
Total Solid Content	2 - 7	2 - 7
Total Volatile Content	93 - 98	93 - 98
Water	0	0
Exempt Compound Content	15 - 20	15 - 20
Category	Two-Stage Topcoat	

Note: US/Canadian regulations allow for the use of exempt compounds for VOC calculations.

FOR REST-OF-WORLD

RTS Regulatory Data	MC01-04	
	Ready For Use	
	LBS/GAL	g/L
VOC	8.9 Max	1068 Max
Density	7 - 9	840 - 1080
	Weight %	Volume %
Total Solid Content	2 - 7	2 - 7
Total Volatile Content	93 - 98	93 - 98
Water	0	0
Exempt Compound Content	15 - 20	15 - 20
Category	Two-Stage Topcoat	

Note: Rest-of-World considered areas outside US/Canada.



MC01-04
MC KOSMIC KROME
(National Rule Only)

HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

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.

If used as instructed, this product is designed to comply with the US and Canadian National Volatile Organic Compound (VOC) Emission Standard for Automobile Refinish Coatings. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.

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GENERAL INFORMATION

Shimrin2 S2-BC02 Orion SilverMax is the next generation of ground-breaking universal basecoats from House of Kolor. Through new polymer technology, and innovative chemistry, we are able to meet and exceed low VOC regulatory limits with a solvent based system designed for Kustom Painting. S2-BC02 Orion SilverMax is the most advanced silver metallic basecoat in the market today. House of Kolor continues to lead the industry with exclusive and unique products not available in standard OEM finishes. True to its name, Orion SilverMax provides Maximum performance, coverage / opacity, brightness on face, flop, and side tone, application simplicity and control. S2-BC02 Orion SilverMax is a Shimrin2 universal basecoat that may be cleared for a final finish, or used as a foundation for Kandies and your own Kustom Kreations when mixing with Kandy Koncentrates (KK's). Maximum overall performance combined with optional components for color styling makes Orion SilverMax a must-have on every painter's bench.

NOTE: S2-BC02 Orion SilverMax does not match BC02 Orion Silver. Please use Shimrin2 mix formula (HOK0003V-00, or Shimrin2 classic BC02 formula) if repairing a substrate originally finished in BC02 Orion Silver.

IMPORTANT NOTES

In Custom Painting, Foundation Primers and Sealers are not an option, they are a must. They have 3 functions:

- 1) They greatly improve adhesion between the substrate and the base coat.
- 2) They make the vehicle one color thereby reducing the number of coats of base, saving you money.
- 3) They greatly improve color hold out and finish quality.



SUBSTRATE

- KD3000 Series DTS Foundation Surfacer Sealers (KD3000 or KD3001 recommended for maximum reflectivity)
- All House of Kolor Shimrin2 Universal Bases
- 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 Series Primers.



SANDING SUBSTRATE

For all substrates

- Dry Sanding: FIPA grade = 280P to 320P grit (CAMI grade = 240 to 280 grit) • Wet Sanding: FIPA grade = 600P to 800P grit (CAMI grade = 400 to 500 grit)

NOTE: Typically sealers do not need to be sanded. Do not seal until you are ready to apply the paint. This is where your chemical bond begins.



COMPONENTS

- S2-BC02 – Shimrin2 Orion SilverMax Basecoat
- Optional: 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
- RU315 - Retarder
- RU300 - LV Cool Weather Reducer 70°F to 85°F
- RU301 - LV Warm Weather Reducer 85 to 100+°F



GUN SET UP

Refer to Spray Gun manufacture's recommendations



MIXING RATIO

For 6.0 lb/gal (720 g/L) VOC Compliance (US National Rule)

Solid Color

- 2 parts S2-BC02
- 1 part RU310, 311, 312, 313 RU Series Reducers

Optional: 90/10 blend of RU310-313 with RU315

KK Mixing Color

- 10 parts S2-BC02
- 1 part KK – Kandy Koncentrates
- 50% Reduction with RU310, 311, 312, 313 RU Series Reducers

For 3.5 lb/gal (420 g/L) VOC Compliance (Low VOC)

Solid Color

- 2 parts S2-BC02
- 1 part LV Series Reducers (RU300 or RU301)

Optional: 0.5 ozs per quart max RU310-313, or RU315

KK Mixing Color

- 18 parts S2-BC02
- 1 part KK – Kandy Koncentrates
- 50% Reduction with LV Series Reducers (RU300 or RU301)



APPLICATION

Apply 2 to 3 medium coats of Shimrin2® Orion SilverMax (S2-BC02) with a 50% pattern overlap. Allow each coat to flash dull (Typically 5 to 15 minutes) between coats. If you intend to do artwork over Orion SilverMax, we suggest you allow the base to flash 30 minutes then apply 2 coats of S2-SG100 Intercoat (see tech sheet on S2-SG100) to protect against tape tracking, etc.



DRY TIME

Allow to flash from 30 minutes up to a max. 4 hours before top coating with USC01 Urethane Show Klear, or other Kosmic Klears (refer to the tech sheet specific to the Klear system you intend to use).



TECHNICAL DATA

FOR USA (National Rule & Low VOC) / Canada

RTS Regulatory Data	2 : 1		10 : 1 : 50%		2 : 1		18 : 1 : 50%	
	RU310-313 Series Reducers				LV Series Reducers			
	LBS/GAL	g/L	LBS/GAL	g/L	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	3.5 Max.	420 Max.	0.9 Max.	105 Max.	0.8 Max.	95 Max.	0.8 Max.	95 Max.
Regulatory VOC (less water & exempt solvents)	6.0 Max.	720 Max.	3.5 Max.	420 Max.	3.5 Max.	420 Max.	3.5 Max.	420 Max.
Density	8 - 10	960 - 1200	8 - 10	960 - 1200	8 - 10	960 - 1200	8 - 10	960 - 1200
	Weight %	Volume %	Weight %	Volume %	Weight %	Volume %	Weight %	Volume %
Total Solid Content	14 - 19	10 - 14	14 - 19	10 - 14	14 - 19	10 - 14	14 - 19	14 - 19
Total Volatile Content	81 - 86	86 - 90	81 - 86	86 - 90	81 - 86	86 - 90	81 - 86	86 - 90
Water	0	0	0	0	0	0	0	0
Exempt Compound Content	42 - 50	42 - 50	42 - 50	42 - 50	76 - 80	78 - 82	76 - 80	78 - 82
Coating Category	Two Stage Topcoat / Color Coating							

Note: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations. Calculations include optional RU Series Reducer adds mentioned above.



FOR REST-OF-WORLD

RTS Regulatory Data	2 : 1		10 : 1 : 50%	
	RU310 - 313 Series Reducers			
	LBS/GAL	g/L	LBS/GAL	g/L
VOC	8.6 Max.	1035 Max.	8.6 Max.	1035 Max.
Density	8 - 10	960 - 1200	8 - 10	960 - 1200
	Weight %	Volume %	Weight %	Volume %
Total Solid Content	14 - 19	10 - 14	14 - 19	10 - 14
Total Volatile Content	81 - 86	86 - 90	81 - 86	86 - 90
Water	0	0	0	0
Coating Category	Two Stage Topcoat / Color Coating			

Note: Rest-of-World considered areas outside US/Canada.

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.

If used as instructed, this product is designed to comply with VOC standards in low-VOC jurisdictions. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.

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GENERAL INFORMATION

Shimrin2 is the next generation, ground-breaking Kandy Basecoat system from House of Kolor. Through new polymer technology, and innovative chemistry, we are able to meet and exceed low VOC regulatory limits with a solvent based system designed for Kustom Painting. S2-00 Trans Nebulae is the beginning of all Shimrin2 effects, making it the heart of the Shimrin2 Kandy Basecoat system. This system will provide extreme clarity, Depth, and Kandy-like appearance in a simple to apply 3 stage Base/Klear system, and will give you all the tools needed to create a truly Kustom Kandy Basecoat finish.

IMPORTANT NOTES

- All Shimrin2 Kandy basecoats are translucent. It is critical the vehicle or substrate is ground coated with one even color. Excellent ground coat options are SS01 Silver Sealer, S2-BC02 and all Shimrin2 Bases. The color of the ground coat will effect the appearance of the Kandy basecoat. Darker basecoats improve spray ability and depth.
- **S2-25 must be applied over KD3001 Black, to avoid milky side cast.**
- HOK1052015 Color Check Panel. A must have color tool. This innovative spray-out panel consists of sixty-two KD3000 series color variations. Color styling has never been easier or faster. Simply apply basecoats over panel to achieve an instant library of colors and effects.



PREPARATION

Please be aware that 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 Series. It is important to maintain at least a 2 dry mil film thickness of KD3000 Series DTS Foundation Surfacer Sealer.



SUBSTRATE

- KD3000 Series DTS Foundation Surfacer / Sealer
- SS01 Silver Sealer (Tinted with Kandy Koncentrates)
- S2-BC02
- Shimrin2® Base Coats
- Properly cured and prepared OEM Finishes

GROUND COAT

ALL SHIMRIN2 KANDY BASECOATS ARE TRANSLUCENT. IT IS CRITICAL THE VEHICLE OR SUBSTRATE IS GROUND COATED WITH ONE EVEN SHIMRIN2 BASECOAT COLOR.

NOTE: Sealer is not a cure-all for poor preparation and does not prevent discoloration or bleeding. The main purpose of the sealer is to increase adhesion of topcoats, to make the object one color (nearest to the base for faster coverage), and to improve color holdout.



COMPONENTS

KK Kandy Koncentrates

- | | |
|----------------------|--------------------|
| • KK01 Brandywine | KK10 Purple |
| • KK02 Lime Gold | KK11 Apple Red |
| • KK03 Wild Cherry | KK12 Pagan Gold |
| • KK04 Oriental Blue | KK13 Burple |
| • KK05 Cobalt Blue | KK14 Spanish Gold |
| • KK06 Burgundy | KK15 Teal |
| • KK07 Root Beer | KK16 Magenta |
| • KK08 Tangerine | KK18 Pink |
| • KK09 Organic Green | KK22 Voodoo Violet |

Shimrin2® FX Karrier Base

- S2-00 Trans Nebulae

Shimrin2® FX Effect Pacs

- FX Metalume® Series
- FX Kosamene® Series
- FX Kosmatic Styling Pearl® Series
- FX Metajuls® Series
- FX Kameleon® Series
- FX Kosmic Sparks® Series

RU Series Reducers

- 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
- RU315 – Retarder
- RU300 - LV Cool Weather Reducer 70°F to 85°F
- RU301 - LV Warm Weather Reducer 85 to 100+°F



GUN SET UP

Refer to spray gun manufacturer's recommendations



MIXING RATIO

National Rule (8 : 1 : 1/2 : 50%)

- 8 parts S2-00 Trans Nebulae
- 1 part KK Kandy Koncentrates
- Up to 1/2 part S2-FX Effect Pac
- After you have assembled Kandy Basecoat mixture, Reduce **50%** with RU Series Reducers RU310, RU311, RU312, RU313 (2 parts Kandy Basecoat mixture to 1 part RU Series Reducer, or 2:1)

Note: 90/10 blend max. RU Series Reducers with RU315 if needed.

Low VOC (8 : 1 : 1/2 : 50%)

- 8 parts S2-00 Trans Nebulae
- 1 part KK Kandy Koncentrates
- Up to 1/2 part S2-FX Effect Pac
- After you have assembled Kandy Basecoat mixture, Reduce 50% with RU Series Reducers RU300 or RU301 (2 parts Kandy Basecoat mixture to 1 part RU Series Reducer, or 2:1)

Note: 90/10 blend max. RU300 or RU301 LV Series / RU310, 311, 312, 313 Series Reducers. If RU315 is needed you may replace half of the 10% blend.



APPLICATION

Apply 3 to 4 medium coats of Shimrin2® Kandy Basecoat with a 75% pattern overlap. Allow each coat to flash dull (Typically 5 to 15 minutes) between coats. Walk long objects. Avoid dry spraying, as loss of adhesion is possible. If you intend to do artwork over the Shimrin2® Kandy Basecoat, we suggest you allow the basecoat to flash 15 minutes then apply 2 medium coats of S2-SG100 Intercoat (see tech sheet on S2-SG100) to protect against tape tracking and overspray under the masking tape, etc.



DRY TIME

Allow to flash from 30 minutes up to 4 hours maximum prior to applying klear. House of Kolor USC01 Urethane Show Klear is recommended for maximum durability and protection of your custom paint project. House of Kolor Klears have 3 times the UV blocking capability of regular automotive clear. Do not Intermix other manufacturers' products with House of Kolor.



CLEAN UP

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



TECHNICAL DATA

FOR USA (National Rule & Low VOC) / Canada

RTS Regulatory Data	8 : 1 : 1/2 : 50%			
	RU310-313 Series Reducers		LV Series Reducers or LV Series/RU Std Series Blend (90/10 Max.)	
	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	3.0 Max.	360 Max.	0.7 Max.	75 Max.
Regulatory VOC (less water & exempt solvents)	5.95 Max.	715 Max.	3.5 Max.	420 Max.
Density	8 - 10	960 - 1200	8 - 10	960 - 1200
	Weight %	Volume %	Weight %	Volume %
Total Solid Content	10 - 15	9 - 14	9 - 14	9 - 14
Total Volatile Content	85 - 90	86 - 91	86 - 91	86 - 91
Water	0	0	0	0
Exempt Compound Content	53 - 56	50 - 53	84 - 87	84 - 87
Coating Category	Two Stage Topcoat / Color Coating			

FOR REST-OF-WORLD

RTS Regulatory Data	8 : 1 : 1/2 : 50%	
	RU310-313 Series Reducers	
	LBS/GAL	g/L
VOC	9.0 Max.	1080 Max.
Density	8 - 10	960 - 1200
	Weight %	Volume %
Total Solid Content	10 - 15	9 - 14
Total Volatile Content	85 - 90	86 - 91
Water	0	0
Coating Category	Two Stage Topcoat / Color Coating	

Note: ROW considered areas outside of US/Canada. Calculations include optional RU315 addition.

Note: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations. Calculations include optional RU315 addition.



GENERAL INFORMATION

Attributed to advanced manufacturing techniques and robust polymer engineering, Shimrin2® Tangerine Kandy Basecoat (S2-KBC08) has been added to the stunning lineup of Shimrin2® KBC's. S2-KBC08 replaces KBC08 and is a factory packaged premix ready to reduce and spray. Through innovative chemistry, we are able to meet and exceed low VOC regulatory limits with a solvent based system designed for Kustom Painting. Shimrin2 Kandy Basecoats create extreme clarity, Depth, and Kandy-like appearance in a simple to apply 3 stage Base/Klear system.

Shimrin2® Kandy Basecoats (KBC) remain a solvent base system compliant in all LOW VOC / clean air districts

IMPORTANT NOTES

- HOK1052015 Color Check Panel. A must have color tool. This innovative spray-out panel consists of sixty-two KD3000 series color variations. Color styling has never been easier or faster. Simply apply basecoats over panel to achieve an instant library of colors and effects.
- BE SURE TO REFER TO GROUND COAT SECTION



PREPARATION

Surface should be free of wax, grease and foreign materials.

- Wash surface thoroughly with soap and water to remove any water soluble contaminants
- Scrub surface thoroughly with KC-10 (National Rule Only) Wax and Grease Remover prior to any sanding
- Sand surface with 500 to 600 For base coat application. Only use 400 wet sand prior to sealer application.

Note: We recommend the sealer application for better adhesion.

- Use KC-20 to remove any remaining sanding residue using the "wipe on - wipe off" method (do not allow KC-20 to flash dry)

Please be aware of 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 Series Primers. It is important to maintain at least a 2 dry mil film thickness of KD3000 Series DTS Foundation Surfacer Sealer.



SUBSTRATE

- KD3000 Series DTS Foundation Surfacer / Sealer
- SS01 Silver Sealer
- S2-BC02
- Shimrin2 Base Coats
- Properly cured and prepared OEM Finishes

GROUND COAT

ALL SHIMRIN2 KANDY BASECOATS ARE TRANSLUCENT. IT IS CRITICAL THE VEHICLE OR SUBSTRATE IS GROUND COATED WITH ONE EVEN SHIMRIN2 BASECOAT COLOR.

An excellent ground coat is House of Kolor's SS01 Silver Sealer (tinted with KK08), S2-BC02 Orion SilverMax (tinted with KK08), and all Shimrin2 mixed basecoats. The color of the ground coat will affect the appearance of the Kandy basecoat. Darker basecoats improve spray ability and depth. It is strongly suggested that your system selection including ground coat and Kandy basecoat are test sprayed over a large area (3"x3" minimum) to ensure color and appearance meet expectations.

NOTE: Sealer is not a cure-all for poor preparation and does not prevent discoloration or bleeding. The main purpose of the sealer is to *increase adhesion of topcoats, to make the object one color (nearest to the base for faster coverage), and to improve color holdout.*



MIXING RATIO

For 5.8 lb/gal (700 g/L) VOC Compliance (US National Rule) - (2:1 by volume)

- 2 parts S2-KBC08
- 1 part RU310, 311, 312, 313 RU Series Reducers

Optional: 90/10 blend of RU310-313 with RU315

For 3.5 lb/gal (420 g/L) VOC Compliance (Low VOC) - (2:1 by volume)

- 2 parts S2-KBC08
- 1 part LV Exempt Series Reducers (RU300 or RU301)

Optional: 90/10 blend max. LV Exempt Series / RU Standard Series Reducers

NOTE: Shimrin2 is slightly more productive than Standard Shimrin bases. Moving up to a slower solvent is recommended for first time users (example, RU311 to RU312 for national rule areas)



SHIMRIN2 KANDY BASECOAT FAC-PAC TANGERINE - S2-KBC08



GUN SET UP

Refer to Spray Gun Manufacturer's settings.



COMPONENTS

- S2-KBC08 – Shimrin2 Tangerine Kandy Base Coat Fac-Pac
- 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°F to 100+°F



APPLICATION

Apply 3 to 4 medium coats of Shimrin2® Kandy Basecoat with a 75% pattern overlap. Allow each coat to flash dull (Typically 5 to 15 minutes) between coats. Walk long objects. Avoid dry spraying, as loss of adhesion is possible. If you intend to do artwork over the Shimrin2® Kandy Basecoat, we suggest you allow the basecoat to flash 15 minutes then apply 2 medium coats of S2-SG100 Intercoat (see tech sheet on S2-SG100) to protect against tape tracking and overspray under the masking tape, etc.



DRY TIME

Allow to flash from 30 minutes up to 4 hours maximum prior to applying klear. House of Kolor USC01 Urethane Show Klear is recommended for maximum durability and protection of your custom paint project. House of Kolor Klears have 3 times the UV blocking capability of regular automotive clear. Do not Intermix other manufacturers' products with House of Kolor



CLEAN UP

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



TECHNICAL DATA

FOR USA (National Rule & Low VOC) / Canada

RTS Regulatory Data	2 : 1			
	RU310-313 Series Reducers		LV Exempt Series Reducers	
	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	3.0 Max.	365 Max.	0.8 Max.	95 Max.
Regulatory VOC (less water & exempt solvents)	5.8 Max.	700 Max.	3.5 Max.	420 Max.
Density	8 - 10	960 - 1200	8 - 10	960 - 1200
	Weight %	Volume %	Weight %	Volume %
Total Solid Content	14 - 19	10 - 14	14 - 19	10 - 14
Total Volatile Content	81 - 86	86 - 90	81 - 86	86 - 90
Water	0	0	0	0
Exempt Compound Content	48 - 52	48 - 52	78 - 82	78 - 82
Coating Category	Two Stage Topcoat / Color Coating			

FOR REST-OF-WORLD

RTS Regulatory Data	2 : 1	
	RU310-313 Series Reducers	
	LBS/GAL	g/L
VOC	8.6 Max.	1035 Max.
Density	8 - 10	960 - 1200
	Weight%	Volume%
Total Solid Content	14 - 19	10 - 14
Total Volatile Content	81 - 86	86 - 90
Water	0	0
Coating Category	Two Stage Topcoat / Color Coating	

Note: Rest-of-World considered areas outside US/Canada.

Note: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations. Calculations include optional RU Series Reducer blends above.



GENERAL INFORMATION

Shimrin2® Graphic Kolors (S2-SG) are the S2 version of the Shimrin SG series. These new graphic kolors lend even more freedom to the painter. S2-SG's are universal base coats that can be simply cleared for a final finish, or used as a base coat for Kandy Base Coats (KBC).



SUBSTRATE

- KD3000 Series
- All Shimrin2 Basecoats
- Properly cured top coat clears (artwork only)



PREPARATION

Shimrin2 Graphic Kolors are susceptible to staining or bleeding from plastic fillers, putties, fiberglass resins and some primers. To prevent staining, prime with KD3000 Direct To Metal Epoxy Primer. **See tech sheets for more information on KD Primers.**

GROUND COAT

- KD3000 Series
- All Shimrin2 Basecoats

*VEHICLE MUST BE ONE EVEN COLOR BEFORE APPLICATION OF BASE COAT. Sealers are commonly used as a ground coat for Shimrin2 graphic kolors. Use a House of Kolor® sealer closest to the base color for faster coverage of base coats. When using sealer, allow flash time. **See tech sheet for information on sealers.***

NOTE: Sealer is not a cure-all for poor preparation and does not prevent discoloration or bleeding.



SANDING SUBSTRATE

Typically, S2-SG Graphic Kolors do not require sanding or scuffing as long as it hasn't sat more than 4 hours prior to top coating. In the event it will have to sit beyond 4 hours such as when performing artwork, it should be sanded. Recommended grit is 500 wet or dry. You can also use a gray scuff pad.



COMPONENTS

- Shimrin2 Graphic Kolors (S2-SG01 - 07)
- 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
- RU315 - Retarder
- RU300 - LV Cool Weather Reducer 70°F to 85°F
- RU301 - LV Warm Weather Reducer 85 to 100+°F



MIXING RATIO

For 5.0 lb/gal (600 g/L) VOC Compliance (US National Rule) - (2:1 by volume)

- 2 parts Shimrin2 Graphic Kolors (S2-SG01 - 07)
- 1 part RU310, 311, 312, 313 Reducers

Note: 90/10 blend max. RU310 - 313 and RU315

For 3.5 lb/gal (420 g/L) VOC Compliance (Low VOC) - (2:1 by volume)

- 2 parts Shimrin2 Graphic Kolors (S2-SG01 - 07)
- 1 part RU300 or RU301 LV Exempt Reducers

Note: 90/10 blend max. RU300 or RU301 LV Series / RU310, 311, 312, 313 Series Reducers



GUN SET UP

Refer to Spray Gun manufacturer instructions for setup.



APPLYING SHIMRIN2® GRAPHIC KOLORS (S2-SG)

Strain the paint into the paint gun. Gun distance while spraying should be approximately 6 inches. Apply 2-3 medium coats with 50% pattern overlap. Walk long objects. Allow flash time between coats. Shimrin® Graphic Kolors will dry dull. Allow dry time before Kandy or clear is applied (usually about 15 to 60 minutes and not longer than 4 hours). Artwork may usually be taped after 1 hour of dry time. Dry time may vary based on shop and weather conditions.

SHIMRIN2® FLASH TEST - ALL SHIMRIN2 GRAPHIC KOLORS WILL DRY DULL AND SHOULD FEEL DRY TO THE TOUCH BEFORE THE NEXT COAT IS APPLIED. Monitor closely for maximum merging of coats.

NOTE: 3 coats of Shimrin2® Graphic Kolor equals 1/2 to 3/4 mil, leaving a minimal edge. (*Tape pulls away leaving a clean, low edge*).



ARTWORK & INTERCOAT USE (optional)

Shimrin2® Graphic Kolors, with their low solids, are an excellent choice for artwork paint jobs. If artwork is planned, you may tape directly onto the base or apply 1 or 2 medium coats of S2-SG100 Intercoat or USC01. The clear coat will protect the Shimrin2® Base from mistakes.

CAUTION: Shimrin2® Graphic Kolors do not have any chemical resistance until cured. Final wash solvents will remove base coats. Use water for cleanup.

KLEAR COAT

ALL SHIMRIN2® GRAPHIC KOLORS MUST BE CLEAR-COATED. Once a system is chosen, after the base coat, stay with that system. Always use House of Kolor® klears. **See appropriate tech sheets for more information on Klear coat application.**

ADDITIONAL INFORMATION

Shimrin2 Graphic Kolors are designed to reduce paint build-up. They feature fast coverage, high pigmentation and low solids. Graphic Kolors are solid colors, but a ground coat will change their tone. The reds and yellows are bright and clean. The maroon and violet are deep and rich. The blues are pure, without green cast. As with other Shimrin2® products, they may be blended into hundreds of color combinations. The possibilities are endless. Create your own one-of-a-kind custom finish.

CLEAN UP

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



TECHNICAL DATA

FOR USA (National Rule & Low VOC) / Canada

RTS Regulatory Data	2 : 1			
	RU310-313 Series Reducers		LV Series Reducers or LV Series/RU Std Series Blend (90/10 Max.)	
	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	4.2 Max.	505 Max.	1.9 Max.	227 Max.
Regulatory VOC (less water & exempt solvents)	5.0 Max.	600 Max.	3.5 Max.	420 Max.
Density	8 - 10	960 - 1200	8 - 10	960 - 1200
	Weight %	Volume %	Weight %	Volume %
Total Solid Content	34 - 37	28 - 30	32 - 37	28 - 30
Total Volatile Content	63 - 66	70 - 72	63 - 68	70 - 72
Water	0	0	0	0
Exempt Compound Content	16 - 20	16 - 20	46 - 50	46 - 50
Coating Category	Two Stage Topcoat / Color Coating			

Note: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations.

FOR REST-OF-WORLD

RTS Regulatory Data	2 : 1	
	RU310-313 Series Reducers	
	LBS/GAL	g/L
VOC	6.7 Max.	800 Max.
Density	8 - 10	960 - 1200
	Weight %	Volume %
Total Solid Content	34 - 37	28 - 30
Total Volatile Content	63 - 66	70 - 72
Water	0	0
Coating Category	Two Stage Topcoat / Color Coating	

Note: Rest-of-world is considered all areas outside US/Canada.



HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

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.

If used as instructed, this product is designed to comply with VOC standards in low-VOC jurisdictions. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.

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GENERAL INFORMATION

S2-SG100 Intercoat is an important tool for the custom painter. It is designed to be applied over a base color, prior to taped art work. This allows for easy removal of mis-tapes or other errors without damage to base color. We recommend KC20 as the only clean up solvent. The intercoat is also applied over art work to preserve blending and fogging of various colors before applying kandy or klear topcoats. S2-SG100 is not a build up klear or a top coat klear. When used as a carrier for basecoat kandys, pearls or flakes, limit applied coats to 4. Considered a must over Marblizer® before kandy or klear to guarantee adhesion. S2-SG100 Intercoat, as you can see, is an important workhorse for the painter!

NOTES:

- **Do not use S2-SG100 as a top coat klear!**
- Do not exceed 4 coats, only 3-4 coats with sufficient flash between coats is all that is required to fill tape-out lines.
- S2-00 Trans Nebulae FX Karrier Basecoat is highly recommended for use as a carrier base for Dry Pearls (DP), Flake (F).



SUBSTRATE

- All Shimrin2 basecoats
- Properly cured top coat klears and OEM finishes (artwork only)

NOTE: Please refer to individual product tech sheets for proper system applications



COMPONENTS

- S2-SG100 – Intercoat
- 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
- RU315 – Retarder
- RU300 – LV Cool Weather Reducer 70°F to 85°F
- RU301 – LV Warm Weather Reducer 85 to 100+°F

Optional

- Dry Pearls
- Flake
- Kandy Koncentrates

MIXING RATIO

For 5.7 lb/gal (680 g/L) VOC Compliance (US National Rule) Standard Mixing

- 2 parts S2-SG100 Intercoat
- 1 part RU310, 311, 312, 313 RU Series Reducers

Optional: 90/10 blend of RU310-313 with RU315

KK / Pearl / Flake Mixing

- 2-4 ozs max. KK per sprayable quart
- See appropriate Pearl / Flake TDS for amounts per sprayable quart.

For 3.5 lb/gal (420 g/L) VOC Compliance (Low VOC) Standard Mixing

- 2 parts S2-SG100 Intercoat
- 1 part LV Exempt Series Reducers (RU300 or RU301)

KK / Pearl / Flake Mixing

- 2-4 ozs max. KK per sprayable quart
- See appropriate Pearl / Flake TDS for amounts per sprayable quart.



DRY TIME

Allow to flash from 30 minutes up to a max. 4 hours before top coating. After 4 hours, wet sand with 500 and re-spray S2-SG100.



GUN SET UP

Refer to Spray Gun Manufacturer's settings.

APPLICATION

Apply 1 to 2 medium coats of Shimrin2 S2-SG100 Intercoat with a 50% pattern overlap. Allow each coat to flash dull (Typically 5 to 15 minutes) between coats. Additional coats may be applied if build is required to fill tape-out lines. We suggest you allow the Intercoat to flash 30-60 minutes before doing tape outs, etc over the S2-SG100 product.

• TOUCH UP & BLEND

S2-SG100 Intercoat may be used to blend Shimrin2® and Shimrin® Pearl and Metallic Base Coats. Metallics will not darken as they normally would at the blend. S2-SG100 may also be added directly to Shimrin2® and Shimrin® Bases for undetectable blends on touch ups.

- Do not over wet the blend edge
- Do not "Flood" the surface, apply light coats

After applying the final coverage coat, begin to step out the blend. Take your final basecoat mix and combine 1:1 with S2-SG100 (edge mix), and apply light coats over the tapered edge until the edge "melts". If additional edge "melt" is required, step out blend once more by reducing the "edge mix" 1:1 with reducer (RU300 or 301 in Low VOC areas), and apply light coats until the edge "melts".

• PEARLS & FLAKE

When using S2-SG100, mix 2 : 1 with RU series reducer then refer to appropriate pearl or flake data sheet for amounts to add. Do not add too much pearl or flake as clouding, mottling, streaking and bunching from too much pearl can occur. Pearl and Flake platelets must have room to sparkle. Overcrowding reduces their effect and increases the chance of mottling and streaking.

• KANDYS

For MAXIMUM DURABILITY use S2-00 Trans Nebulae or Shimrin2 UKK01 Kandy Karrier with KK Kandy Koncentrates. S2-SG100 Intercoat may be used to make low solid Kandys by mixing any of our Kandy Koncentrates (KK) with S2-SG100. Excellent when multiple Kandy tape outs are required under urethane topcoats. Perfect for small parts or graphics when speed is a factor. Reduce S2-SG100 2 : 1 with RU310-313 Standard Series Reducers (RU300 or RU301 in Low VOC Areas), then add 2-4 ozs of KK per sprayable quart. See KK tech sheet for more information on using Kandy Koncentrates.

TECHNICAL DATA



FOR USA (National Rule & Low VOC) / Canada
Standard Mix

RTS Regulatory Data	2 : 1		2 : 1	
	RU310-313 Series Reducers		LV Exempt Series Reducers	
	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	3.3 Max.	395 Max.	1.05 Max.	126 Max.
Regulatory VOC (less water & exempt solvents)	5.7 Max.	680 Max.	3.5 Max.	420 Max.
Density	8 - 10	960 - 1200	8 - 10	960 - 1200
	Weight %	Volume %	Weight %	Volume %
Total Solid Content	16 - 21	14 - 19	14 - 19	14 - 19
Total Volatile Content	79 - 84	81 - 86	81 - 86	81 - 86
Water	0	0	0	0
Exempt Compound Content	42 - 48	42 - 48	70 - 75	70 - 75
Category	Two Stage Topcoat / Color Coating			

Note: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations. Calculations include optional adds mentioned above.

TECHNICAL DATA



Optional Touch Up & Blend Mix

RTS Regulatory Data	(1 : 1) : 1 (RTS Basecoat Mix : S2-SG100) : Reducer			
	RU310-313 Series Reducers		RU300-301 LV Exempt Series Reducers	
	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	4.7 Max.	569 Max.	0.5 Max.	65 Max.
Regulatory VOC (less water & exempt solvents)	6.6 Max.	790 Max.	3.5 Max.	420 Max.
Density	8 - 10	960 - 1200	8 - 10	960 - 1200
	Weight %	Volume %	Weight %	Volume %
Total Solid Content	9 - 15	7 - 12	8 - 14	8 - 14
Total Volatile Content	85 - 91	88 - 93	86 - 92	86 - 92
Water	0	0	0	0
Exempt Compound Content	30 - 35	28 - 33	85 - 90	85 - 90
Category	Two Stage Topcoat / Color Coating			

Note: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations.

**FOR REST-OF-WORLD
Standard Mix**

RTS Regulatory Data	2 : 1 RU310 - 313 Series Reducers	
	LBS/GAL	g/L
	VOC	8.4 Max.
Density	8 - 10	960 - 1200
	Weight %	Volume %
Total Solid Content	16 - 21	14 - 19
Total Volatile Content	79 - 84	81 - 86
Water	0	0
Category	Two Stage Topcoat / Color Coating	

Note: Rest-of-World considered areas outside US/Canada.

Optional Touch Up & Blend Mix

RTS Regulatory Data	(1 : 1) : 1 (RTS Basecoat Mix : S2-SG100) : Reducer	
	RU310 - 313 Series Reducers	
	LBS/GAL	g/L
VOC	9.1 Max.	1092 Max.
Density	8 - 10	960 - 1200
	Weight %	Volume %
Total Solid Content	9 - 15	7 - 12
Total Volatile Content	85 - 91	88 - 93
Water	0	0
Category	Two Stage Topcoat / Color Coating	

Note: Rest-of-World considered areas outside US/Canada.



SHIMRIN2 S2-SG100 INTERCOAT

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.

If used as instructed, this product is designed to comply with VOC standards in low-VOC jurisdictions. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option

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GENERAL INFORMATION

Shimrin2 is the next generation, ground-breaking universal basecoat system from House of Kolor. Through new polymer technology, and innovative chemistry, we are able to meet and exceed low VOC regulatory limits with a solvent based system designed for Kustom Painting. S2-00 Trans Nebulae is the beginning of all Shimrin2 effects, making it the heart of the Shimrin2 product system. The diverse components in the Shimrin2 Basecoat System are used to create straight effects without pigment, KBC Kandy Basecoats, tri-stage coats and much more. Color styling is a breeze with the S2 FX Karrier Bases. These S2 FX Karrier Bases combined with the eye-popping S2-FX Effect Pacs will give you all the tools needed to create a truly Kustom finish.

IMPORTANT NOTES

- All Shimrin2® base coats are semi-translucent. It is critical the vehicle or substrate is ground coated with one even color. Excellent ground coat choices over the DTF Foundation Surfacer / Sealer are House of Kolor's SS01 Silver Sealer, S2-BC02 or S2-25/S2-26. The color of the ground coat will effect the appearance of the base coat.
- We recommend using a ground coat color that is closest to the Shimrin2® base coat color. This will reduce the number of Coats of Shimrin2® basecoats required to achieve desired color or effect.
- HOK1052015 Color Check Panel, a must have color tool. This innovative spray-out panel consists of sixty-two KD3000 series color variations. Color styling has never been easier or faster. Simply apply basecoats over panel to achieve an instant library of colors and effects.



SUBSTRATE

- KD3000 Series DTS Foundation Surfacer / Sealer
- SS01 Silver Sealer
- S2-BC02 Orion SilverMax
- Shimrin2® Basecoats
- 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 Series. It is important to maintain at least a 2 dry mil film thickness of KD3000 Series DTS Foundation Surfacer Sealer.



COMPONENTS

SHIMRIN2 FX KARRIER BASES	S2- FX EFFECT PACS	S2-FX38 S2-FX39	RU SERIES REDUCER
S2-00	S2-FX01	S2-FX41	RU310
S2-01	S2-FX02	S2-FX42	RU311
S2-02	S2-FX03	S2-FX43	RU312
S2-03	S2-FX04	S2-FX44	RU313
S2-04	S2-FX05	S2-FX45	RU315
S2-05	S2-FX21	S2-FX46	RU300
S2-06	S2-FX22	S2-FX47	RU301
S2-07	S2-FX23	S2-FX51	
S2-08	S2-FX24	S2-FX52	
S2-09	S2-FX25	S2-FX53	
S2-10	S2-FX26	S2-FX54	
S2-11	S2-FX30	S2-FX55	
S2-12	S2-FX31	S2-FX56	
S2-13	S2-FX32	S2-FX61	
S2-14	S2-FX33	S2-FX62	
S2-15	S2-FX34	S2-FX65	
S2-16	S2-FX35	S2-FX66	
S2-17	S2-FX36	S2-FX67	
S2-18	S2-FX37		



GUN SET UP

Refer to spray gun manufacturer's recommendations



MIXING RATIO

For 5.9 lb/gal (705 g/L) VOC Compliance (US National Rule) - (2:1 by volume)

- 2 parts Shimrin2 Karrier Bases
- 1 part RU Reducer (RU310, RU311, RU312 or RU313)

Note: 90/10 blend max. RU Series Reducers / RU315

For 3.5 lb/gal (420 g/L) VOC Compliance (Low VOC) - (2:1 by volume)

- 2 parts Shimrin2 Karrier Bases
- 1 part RU Reducer (RU300 or RU301)

Note: 90/10 blend max. RU300 or RU301 LV Series / RU310, 311, 312, 313 Series Reducers

For 5.9 lb/gal (705 g/L) VOC Compliance (US National Rule) - (3:1:2 by volume)

- 3 parts Shimrin2 Karrier Bases
- 1 Part S2-FX Effect Pac
- 2 part RU Reducer (RU310, RU311, RU312 or RU313)

Note: 90/10 blend max. RU Series Reducers / RU315

For 3.5 lb/gal (420 g/L) VOC Compliance (Low VOC) - (3:1:2 by volume)

- 3 parts Shimrin2 Karrier Bases
- 1 Part S2-FX Effect Pac
- 2 part RU Reducer (RU300 or RU301)

Note: 90/10 blend max. RU300 or RU301 LV Series / RU310, 311, 312, 313, 315 Series Reducers



APPLICATION

Apply 2 to 3 medium coats of Shimrin2® Basecoat with a 50% pattern overlap. Allow each coat to flash dull (Typically 5 to 15 minutes) between coats. If you intend to do artwork over the Shimrin2® base coat, we suggest you allow the base coat to flash 15 minutes then apply 2 medium coats of S2-SG100 Intercoat (see tech sheet on S2-SG100) to protect against tape tracking and overspray under the masking tape, etc. For "touch ups & blending", see corresponding section on S2-SG100 TDS.

TOUCH UPS & BLENDING

S2-SG100 Intercoat may be used to blend Shimrin2® Pearl and Metallic Base Coats. Metallics will not darken as they normally would at the blend. S2-SG100 may also be added directly to Shimrin2® Bases for undetectable blends on touch ups. See S2-SG100 TDS for more information.



DRY TIME

Allow to flash from 30 minutes up to 4 hours maximum prior to applying klear. House of Kolor USC01 Urethane Show Klear is recommended for maximum durability and protection of your custom paint project. House of Kolor Klears have 3 times the UV blocking capability of regular automotive clear. Do not Intermix other manufacturers' products with House of Kolor.



CLEAN UP

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



TECHNICAL DATA

FOR USA (National Rule & Low VOC) / Canada

RTS Regulatory Data	2 : 1		2 : 1		3 : 1 : 2		3 : 1 : 2	
	RU310-313 Series Reducers		RU300 & 301 LV Series Reducers		RU310-313 Series Reducers		RU300 & 301 LV Series Reducers	
	LBS/GAL	g/L	LBS/GAL	g/L	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	3.4 Max.	410 Max.	0.95 Max.	115 Max.	3.3 Max.	390 Max.	0.95 Max.	115 Max.
Regulatory VOC (less water & exempt solvents)	5.9 Max.	705 Max.	3.5 Max.	420 Max.	5.9 Max.	705 Max.	3.5 Max.	420 Max.
Density	8 - 10	960 - 1200	8 - 10	960 - 1200	8 - 10	960 - 1200	8 - 10	960 - 1200
	Weight %	Volume %	Weight %	Volume %	Weight %	Volume %	Weight %	Volume %
Total Solid Content	13 - 18	13 - 18	13 - 18	13 - 18	13 - 18	13 - 18	13 - 18	13 - 18
Total Volatile Content	82 - 87	82 - 87	82 - 87	82 - 87	82 - 87	82 - 87	82 - 87	82 - 87
Water	0	0	0	0	0	0	0	0
Exempt Compound Content	42 - 46	42 - 46	73 - 77	73 - 77	45 - 48	45 - 48	73 - 77	73 - 77
Category	Two Stage Topcoat / Color Coating							

Note: US/Canada Regulations allow for the use of exempt compounds for VOC calculations. Includes optional reducer blends using the RU Series Reducers.



TECHNICAL DATA

FOR REST-OF-WORLD

RTS Regulatory Data	2 : 1		3 : 1 : 2	
	RU310-313 Series Reducers		RU310-313 Series Reducers	
	LBS/GAL	g/L	LBS/GAL	g/L
VOC	8.8 Max.	1060 Max.	8.8 Max.	1060 Max.
Density	8 - 10	960 - 1200	8 - 10	960 - 1200
	Weight %	Volume %	Weight %	Volume %
Total Solid Content	13 - 18	13 - 18	13 - 18	13 - 18
Total Volatile Content	82 - 87	82 - 87	82 - 87	82 - 87
Water	0	0	0	0
Category	Two Stage Topcoat / Color Coating			

Note: ROW considered areas outside the US & Canada.

HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

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.

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GENERAL INFORMATION

Shimrin2 Solid Basecoats S2-25 & S2-26 are the next generation of ground-breaking universal basecoats from House of Kolor. Through new polymer technology, and innovative chemistry, we are able to meet and exceed low VOC regulatory limits with a solvent based system designed for Kustom Painting. S2-25 Jet Black & S2-26 Bright White are Shimrin2 universal basecoats that may be cleared for a final finish, or used as a foundation for Kandies and your own Kustom Kreations. The Jettest Black and Brightest White are a must-have on every painter's bench.



SUBSTRATE

- KD3000 Series DTS Foundation Surfacer Sealers
- All House of Kolor Shimrin2 Universal Bases
- Properly cured and prepared OEM finishes

SANDING THE SUBSTRATE

For all substrates

- Dry Sanding: FIPA grade = 280P to 320P grit (CAMI grade = 240 to 280 grit)
- Wet Sanding: FIPA grade = 600P to 800P grit (CAMI grade = 400 to 500 grit)

NOTE: Typically sealers do not need to be sanded. Do not seal until you are ready to apply the paint. This is where your chemical bond begins.



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 Series. It is important to maintain at least a 2 dry mil film thickness of KD3000 Series DTS Foundation Surfacer Sealer.



COMPONENTS

- 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
- RU315 Retarder
- RU300 LV Cool Weather Reducer 70°F to 85°F
- RU301 LV Warm Weather Reducer 85 to 100+°F
- S2-FX Pacs Optional



MIXING RATIO

For 5.8 lb/gal (700 g/L) VOC Compliance (US National Rule)

- 2 parts Shimrin2 Solid Basecoats (S2-25 or S2-26)
- 1 part RU310, 311, 312, 313 RU Series Reducers

Optional: 90/10 blend of RU310-313 with RU315

For 3.5 lb/gal (420 g/L) VOC Compliance (Low VOC)

- 2 parts Shimrin2 Solid Basecoats (S2-25 or S2-26)
- 1 part LV Exempt Series Reducers (RU300 or RU301)

Optional: 80/20 blend max of LV Exempt Series/RU Standard Series Reducers



APPLICATION

Apply 2 to 3 medium coats of Shimrin2® (S2-25 or S2-26) with a 50% pattern overlap. Allow each coat to flash dull (Typically 5 to 15 minutes) between coats. If you intend to do artwork over the Jet Black or Bright White, we suggest you allow the base to flash 30 minutes then apply 2 coats of S2-SG100 Intercoat (see tech sheet on S2-SG100) to protect against tape tracking, etc.

• TOUCH UP & BLEND

S2-SG100 may be added directly to Shimrin2® Solid Bases for undetectable blends on touch ups. See S2-SG100 TDS for additional information.



DRY TIME

Allow to flash from 30 minutes up to a max. 4 hours before top coating with USC01 Urethane Show Klear, or other Kosmic Klears (refer to the tech sheet specific to the Klear system you intend to use).



GUN SET UP

Refer to Spray Gun Manufacturer's settings.



SHIMRIN2® SOLID BASECOATS S2-25 JET BLACK / S2-26 BRIGHT WHITE



TECHNICAL DATA

FOR USA (National Rule & Low VOC) / Canada

RTS Regulatory Data	2 : 1		2 : 1	
	RU310-313 Series Reducers		LV Exempt Series Reducers	
	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	3.5 Max.	420 Max	0.95 Max.	110 Max
Regulatory VOC (less water & exempt solvents)	5.8 Max.	700 Max.	3.5 Max.	420 Max.
Density	8 – 10	960 – 1200	9 – 11	1080 – 1320
	Weight %	Volume %	Weight %	Volume %
Total Solid Content	12 – 29	10 – 18	11 – 27	10 – 18
Total Volatile Content	71 – 88	82 – 90	73 – 89	82 – 90
Water	0	0	0	0
Exempt Compound Content	38 – 57	40 – 53	68 – 88	74 – 88
Category	Two Stage Topcoat / Color Coating			

Note: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations. Calculations include optional RU Series Reducer blends above.

FOR REST-OF-WORLD

RTS Regulatory Data	2 : 1	
	RU310-313 Series Reducers	
	LBS/GAL	g/L
VOC	9.0 Max.	1080 Max.
Density	8 – 10	960 – 1200
	Weight %	Volume %
Total Solid Content	12 – 29	10 – 18
Total Volatile Content	71 – 88	82 – 90
Water	0	0
Category	Two Stage Topcoat / Color Coating	

Note: Rest-of-World considered areas outside US/Canada.

HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

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.

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GENERAL INFORMATION

SS01 House of Kolor Silver Sealer is the only silver sealer in the automotive paint business. Considered a must under all metallic based colors for easy to spray even coverage of metallic basecoats. Fewer topcoats will be necessary for additional savings. This product was built from a polyurethane resin system to provide tenacious adhesion, long term color hold out and to work over House of Kolor's new KD3000 Direct to Substrate colored primer system and OE finishes. SS01 can also be custom tinted with Kandy Koncentrates for an even closer color match under Shimrin2 basecoats and Kandy basecoats.

NOTE: SS01 SHOULD NOT BE APPLIED OVER BARE METAL SURFACES OF ANY KIND. SS01 MUST BE APPLIED OVER SANDED AND CLEAN PRIMER OR PROPERLY PREPARED AND SANDED PREVIOUSLY PAINTED SURFACES FOR PROPER ADHESION.

SS01 is a high quality two component polyurethane sealer designed to:

- Act as a bond coat between primer and top coats.
- Act as a holdout agent to prevent topcoats from soaking into the primer and reducing gloss.
- Make the object to be painted an appropriate color for faster coverage of top coats.
- Can be applied over properly prepared and sanded previously painted OEM surfaces, or KD Series House of Kolor Primers for proper adhesion of topcoats.

SS01 is designed to be used with all House of Kolor BC, KBC, SG, PBC basecoat products. Choose the appropriate color for the base coat system and color that is going to be applied. Add Kandy Koncentrates to SS01 Silver Sealer for a closer match to the base coat or top coat color. For use under a UKK or UK Kandy we recommend applying 2 coats of a BC basecoat to balance final appearance.



SUBSTRATE

- KD3000 Series DTS Foundation Surfacer Sealers (KD3000 or KD3001 recommended for maximum reflectivity)
- All House of Kolor Shimrin2 Universal Bases
- Properly cured and prepared OEM finishes



PREPARATION

Use only House of Kolor's KD Epoxy Primers over bare metal substrates or metal substrates with body work. See tech sheet for more information on KD Epoxy Primers.



COMPONENTS

- KU152 Catalyst
- KK01-22 Kandy Koncentrates (optional)
- RU310-313 RU Series Standard Reducers (optional)
- RU300 & 301 LV Series Exempt Reducers (optional)



MIXING RATIO

For 4.6 lb/gal (550 g/L) VOC Compliance (US National Rule)

Simply add catalyst and spray. No Reducer necessary

- 6 parts
- 1 part KU152 Catalyst

Optional: Max 10% KK and 10% RU310-313 for additional flow and control

For 2.1 lb/gal (250 g/L) VOC Compliance (Low VOC)

Simply add catalyst and spray. No Reducer necessary

- 6 parts
- 1 part KU152 Catalyst

Optional: Max 6.5% KK and 10% LV Exempt Reducers (RU300 or 301) for additional flow and control



APPLICATION

Strain the sealer after mixing. Gun distance while spraying should be approximately 5 to 6 inches. Apply 1 or 2 medium wet coats with 50% pattern overlap. Walk long objects. Be sure of thorough coverage. Allow flash 10 to 15 minutes between coats.



NOTE: Mottling may occur in areas where SS01 is applied too heavily. To correct this use a drop coat or mist coat which is applied at a slightly lower pressure and quicker pass over these areas.



TECHNICAL DATA

FOR USA (National Rule & Low VOC) / Canada

RTS Regulatory Data	6 : 1		6 : 1	
	RU310-313 Series Reducers		LV Exempt Series Reducers	
	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	2.5 Max.	297 Max.	0.92 Max.	110 Max.
Regulatory VOC (less water & exempt solvents)	4.6 Max.	550 Max.	2.1 Max.	250 Max.
Density	9 - 11	1080 - 1320	9 - 11	1080 - 1320
	Weight %	Volume %	Weight %	Volume %
Total Solid Content	32 - 36	30 - 34	32 - 36	30 - 34
Total Volatile Content	64 - 68	66 - 70	64 - 68	66 - 70
Water	0	0	0	0
Exempt Compound Content	48 - 52	46- 50	56 - 60	56 - 60
Category	Primer Sealer			

NOTE: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations. Calculations include optional KK and Reducer adds above.

RTS Regulatory Data	6 : 1	
	RU310-313 Series Reducers	
	LBS/GAL	g/L
VOC	7.5 Max.	900 Max.
Density	9 - 11	1080 - 1320
	Weight %	Volume %
Total Solid Content	32 - 36	30 - 34
Total Volatile Content	64 - 68	66 - 70
Water	0	0
Category	Primer Sealer	

NOTE: Rest-of-World considered areas outside US/Canada.

HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

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.

If used as instructed, this product is designed to comply with VOC standards in low-VOC jurisdictions. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.



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. USC01 has increased UV blocking capability when compared to standard automotive clear products. This is especially important when finishing Kandy, Basecoats, and specialty products. USC01 spraying at over 40% volume solids, it offers users excellent flow out, gloss, and D.O.I. (Distinctness of Image). 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.

- All catalyst including KU152 are moisture sensitive and will not keep for long periods open. Keep the container tightly sealed. Clean the catalyst container's pour spout by wiping the threads with reducer for ease of reopening.
- 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 jambs, 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



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)
- KE170 - KRATOR (Optional)



MIXING RATIO

For 4.0 lb/gal (480 g/L) VOC Compliance (US National Rule) - (3:1:1 by volume)

- 3 parts USC01 Klear
- 1 part KU152 Catalyst
- 1 part RU310, 311, 312, 313 RU Series Reducers

For 2.1 lb/gal (250 g/L) VOC Compliance (Low VOC) - (3:1:1 by volume)

- 3 parts USC01 Klear
- 1 part KU152 Catalyst
- 1 part LV Exempt Series Reducers (RU300 or RU301)

Note: 75/25 blend max. LV Exempt Series/RU Standard Series Reducers

Optional: To any of the above mixtures

- Add AX02 at 5% max. per ready-to-spray quart
- Add KE170 at 0.1 ozs. max. per ready-to-spray quart
- For extra flow out, add up to 5% of any RU Reducer per mixed quart of klear. Low VOC areas may use Std RU Reducers for this 5% add, **ONLY** if the optional LV Exempt/RU Std Series blend was not used, otherwise you are only allowed to use RU300 or 301.



MIXING RATIO CONTINUED

<u>USC01 MIXED KLEAR (RTS)</u>	<u>KOSMIC KICKER</u>
8 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.



POT LIFE

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



GUN SET UP

Refer to Spray Gun Manufacturer's settings.

APPLICATION

Apply 1 medium coat and allow to flash 15-20 minutes or till hand slick, followed by 2 medium wet coats allowing to flash 20 - 30 minutes between coats. Shop conditions, air flow, and reducer used will vary flash times. To ensure maximum performance, use the "hand slick" method of monitoring the finish between coats. The hand slick method goes a step beyond the touch test method and is achieved by gently swiping finger over clear to monitor readiness for next coat.

NOTE: USC01 is a higher flowing clear that requires the user to use the hand slick method to prevent runs and solvent popping.

NOTE: DO NOT rush your recoat time between coats. You could experience solvent popping.

NOTE: When applying USC01 directly over UK Kandy's, the first coat should be applied medium wet.

NOTE: **Dry time lengthens with each coat.**

NOTE: Only mix enough for each individual coat.



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 30 minutes at 140F, 30 minute 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 FLOW COATING, 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 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

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 RUIN ALL YOU'VE DONE. Look for colored water, this will indicate you sanded through the clear.

RECOAT (FLOW COATING)

RE-MASKING 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 mixed quart of clear. The additional reducer will give you extra flow out. Begin with a medium coat followed by 1-2 medium wet coats following "hand slick" method for measuring flash times between coats as outlined in APPLICATION directions above. For NATIONAL RULE use RU310, RU311, RU312 or RU313. For LOW VOC, use RU300 or RU301.

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

FOR USA (National Rule & Low VOC) / Canada

RTS Regulatory Data	3 : 1 : 1		3 : 1 : 1	
	RU310-313 Series Reducers		LV Exempt Series Reducers	
	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	2.9 Max.	346 Max.	1.0 Max.	120 Max.
Regulatory VOC (less water & exempt solvents)	4.0 Max.	480 Max.	2.1 Max.	250 Max.
Density	8 - 10	960 - 1200	8 - 10	960 - 1200
	Weight %	Volume %	Weight %	Volume %
Total Solid Content	34 - 42	32 - 42	31 - 41	32 - 42
Total Volatile Content	58 - 66	58 - 68	59 - 69	58 - 68
Water	0	0	0	0
Exempt Compound Content	34 - 41	28 - 36	55 - 63	52 - 60
Category	Clear Coat			

Note: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations. Calculations include optional 5% AX02, and all optional reducer adds

FOR REST-OF-WORLD

RTS Regulatory Data	3 : 1 : 1	
	RU310 - 313 Series Reducers	
	LBS/GAL	g/L
VOC	6.6 Max.	800 Max.
Density	8 - 10	960 - 1200
	Weight %	Volume %
Total Solid Content	34 - 42	32 - 42
Total Volatile Content	58 - 66	58 - 68
Water	0	0
Category	Clear Coat	

Note: ROW considered areas outside US/Canada. Calculations include optional 5% AX02, and all optional reducer adds - See mixing section above.

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.

If used as instructed, this product is designed to comply with VOC standards in low-VOC jurisdictions. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option

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GENERAL INFORMATION

Our Striping & Lettering Enamels feature high pigmentation, and long open times for your vehicle artwork projects. Apply over existing vehicle finishes or topcoat with clear for a smooth, durable finish. Our Striping & Lettering Enamels may be top coated with any House of Kolor Klear.



PREPARATION

Remove all traces of wax, silicone, grease, dirt, etc. If finish is oxidized or dull, polish before striping is begun. If overall clear coats are required, color sand with 500 or 600 grit wet sandpaper. See tech sheet for color sanding instructions. CAUTION: Do final wipe down with KC20 or water only. Wash solvents will remove the artwork. Mistakes over catalyzed urethane are easily removed with a rag dampened with acetone.



MIXING RATIO

For 5.0 lb/gal (600 g/L) VOC Compliance (US National Rule)

No Catalyst

- 16 parts Urethane Striping Enamel
- 1 part Urethane Striping Reducer

With Catalyst

- 8 parts Urethane Striping Enamel
- 1 part Urethane Striping Catalyst

Optional: Add 0-5% U00 Urethane Striping Reducer



Notes: Palette paint in a paper cup for best results. Use the U00 Striping Reducer as described to maintain proper consistency. Brush back and forth a few times, then begin your artwork. Allow artwork to dry minimum of 1 hour (depending on shop conditions) before applying clear coats. If stripers are NOT catalyzed, clear coat should be applied over artwork.

KLEARING

When clearing over artwork, adjust the gun and bring the clear on slowly to prevent sliding of artwork. See product data sheet for proper use.

NOTE: Applying the clear too wet may cause the artwork to slide or run. Allow flash time between coats, and use fast reducers. Catalyzing the stripers may also reduce the tendency for the artwork to slide or run.

CLEANING

Clean your brush with urethane reducer or lacquer thinner (check local regulations). Many artists will simply fluff the brush with low air pressure after cleaning with reducer, and then lightly apply a brush oil prior to storage.

REMOVING MISTAPES

CAUTION: Base coats will be removed with reducers unless they have been cleared with a topcoat clear. Base coats do not have any chemical resistance until cleared. Final wash solvents and reducers will remove base coats. Use care not to wipe away your artwork.

On extensive art jobs, we recommend applying 2 coats of urethane clear (before applying the artwork). The following day, color sand with 400 - 600 grit wet, then pinstripe the artwork. This allows mistakes to be easily removed with acetone.

Wipe with U00, RU310 Reducer, or acetone using hard pressure and a clean spot on the rag. Carefully check the area to be sure no residual paint film remains.


TECHNICAL DATA
US (National Rule Only)

RTS Regulatory Data	16 : 1 (No Catalyst)		8 : 1 :0-5% (With Catalyst)	
	U00 Reducer			
	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	5.0 Max.	600 Max	5.0 Max.	600 Max.
Regulatory VOC (less water and exempt solvents)	5.0 Max.	600 Max.	5.0 Max.	600 Max.
Density	8.5 – 10.5	1020 – 1260	8.5 – 10.5	1020 – 1260
	Weight%	Volume%	Weight%	Volume%
Total Solid Content	45 – 55	30 – 40	45 – 55	30 – 45
Total Volatile Content	45 – 55	60 – 70	45 – 55	55 – 70
Water	0	0	0	0
Exempt Compound Content	0	0	0	0
Coating Category	Single Stage			

FOR REST-OF-WORLD

RTS Regulatory Data	16 : 1 (No Catalyst)		8 : 1 :0-5% (With Catalyst)	
	U00 Reducer			
	LBS/GAL	g/L	LBS/GAL	g/L
VOC	6.0 Max.	720 Max	6.0 Max.	720 Max.
Density	8.5 – 10.5	1020 – 1260	8.5 – 10.5	1020 – 1260
	Weight%	Volume%	Weight%	Volume%
Total Solid Content	45 – 55	30 – 40	45 – 55	30 – 45
Total Volatile Content	45 – 55	60 – 70	45 – 55	55 – 70
Water	0	0	0	0
Coating Category	Single Stage			

NOTE: Rest-Of-World considered areas outside US/Canada.

HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

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.

If used as instructed, this product is designed to comply with the US National Volatile Organic Compound (VOC) Emission Standard for Automobile Refinish Coatings. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.

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SP1600 SPRAYABLE POLYESTER PRIMER



GENERAL INFORMATION

SP1600 Sprayable Polyester Primer, low VOC, high build polyester primer surfacer, which is compatible with and provides excellent adhesion to fiberglass and primed surfaces such as aluminum and steel. SP1600's high build formulation dries quickly to touch and has exceptional sanding and filling characteristics.



1. COMPONENTS

- SP1600 Sprayable Polyester Primer
- MEKP Liquid Hardener



2. MIXING RATIO

- Mix one (1) quart SP1600 to (1/2) half ounce MEKP Liquid Hardener.

NOTE: Combine components by volume. Mix thoroughly and strain before using.



3. POT LIFE

30 - 40 minutes at 75°F / 50% RH

Note: Pot life shortens at temperatures above 75°F.



4. SURFACE PREPARATION

1. Clean surface of all contaminants with Wax & Grease Remover. Wipe dry with a clean cloth.
2. Grind repair area. Sand and featheredge with 180 to 320 grit abrasive.
3. Remove sanding debris by blowing off repair area and cleaning with Wax & Grease Remover. Wipe dry with a clean cloth. Do not topcoat unless surface is completely dry.

Note: Do not apply over uncured substrates or uncatalyzed enamel paint films



5. APPLICATION

- Apply 2 - 3 medium wet coats.
- Do not use at temperatures below 55°F

6. AIR PRESSURE:

Reduced Pressure: 20 - 35 psi at the gun

HVLP: 10 - 20 psi at the gun



7. GUN SET UP:

Reduced Pressure: 1.7mm - 2.2mm

HVLP: 1.7mm - 2.2mm

8. SPRAY GUN CLEAN UP

- Clean spraygun thoroughly with lacquer thinner after use of SP1600.



9. FLASH / DRY TIMES

AIR DRY @ 75°F (25°C)

Flash Between Coats	3 - 5 Minutes
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NOTE: SP1600 can be sanded in one hour depending on temp.

FORCE DRY @ 130-140°F (25°C)

Flash Between Coats	3 - 5 Minutes
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NOTE: SP1600 must be sanded within 4 hours after application to avoid difficulty sanding.

If used as instructed, this product is designed to comply with the US National Volatile Organic Compound (VOC) Emission Standard for Automobile Refinish Coatings. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.



GENERAL INFORMATION

House of Kolor's Limited Edition (LE) Factory Packs will be available for a limited time, but are always available to be mixed in the Shimrin2 InterMix System. Mixing ratios can be found at houseofkolor.com.



1. COMPONENTS

- S2-LE01 BLACK FOREST
- S2-LE02 BLU BY-YOU
- S2-LE03 BLOOD ORANGE
- S2-LE04 RIGHTEOUS ROJO



2. MIXING RATIO (2:1: by volume)

- Mix two (2) parts LE Series to one (1) part RU reducers



3. SURFACE PREPARATION

- Surfaces should be prepared using the primer undercoat system following recommended procedures



4. TOPCOATS

- Compatible with all House of Kolor clear coats

NOTE: All House of Kolor Bases must be clear coated

5. SUBSTRATES

- KD3000 Series Primers/Sealers



6. PHYSICAL DATA

Coast-2-Coast Compliant

RTS REGULATORY DATA	2:1 (RU300 & RU301 Series Reducers)	
	LBS./GAL.	g/L
	Actual VOC	3.5 Max.
Regulatory VOC (less water and exempt solvents)	3.5 Max.	420 Max.
Density	8.80-9.10	1050-1085
	WT. %	VOL. %
Total Solids Content	12-14	11-14
Total Volatile Content	86-88	86-89
Water	0	0
Exempt Compound Content	75-80	72-79
Coating Category	Color Coat	

NOTE: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations.



PHYSICAL DATA (continued)

FOR REST-OF-WORLD (outside US and Canada):

RTS REGULATORY DATA	2:1 (RU300 & RU301 Series Reducers)	
	LBS./GAL.	g/L
	VOC	3.5 Max.
Density	8.80-9.10	1050-1085
	WT. %	VOL. %
Total Solids Content	12-14	11-14
Total Volatile Content	86-88	86-89
Water	0	0
Coating Category	Color Coat	

National Rule

RTS REGULATORY DATA	2:1 (RU310, RU311, RU312 and RU313 Series Reducers)	
	LBS./GAL.	g/L
	Actual VOC	3.5 Max.
Regulatory VOC (less water and exempt solvents)	3.5 Max.	420 Max.
Density	5.6-5.9	670-707
	WT. %	VOL. %
Total Solids Content	12-14	11-14
Total Volatile Content	86-88	86-89
Water	0	0
Exempt Compound Content	42-49	39-46
Coating Category	Color Coat	

NOTE: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations.

FOR REST-OF-WORLD (outside US and Canada):

RTS REGULATORY DATA	2:1 (RU310, RU311, RU312 and RU313 Series Reducers)	
	LBS./GAL.	g/L
	VOC	5.6-5.9
Density	8.80-9.10	1050-1085
	WT. %	VOL. %
Total Solids Content	12-14	11-14
Total Volatile Content	86-88	86-89
Water	0	0
Coating Category	Color Coat	



GENERAL INFORMATION

FC21 Flat Clearcoat with an easy 6:1 mix ratio. FC21 is designed to produce a 5° - 15° gloss level. FC21 sprays easily and dries quickly



1. COMPONENTS

- FC21 Flat Klear
- KUF21 Flat Klear Katalyst



2. MIXING RATIO (6:1 by volume)

- Mix six (6) parts FC21 Flat Klear to one (1) part KUF21 Flat Klear Katalyst



3. POT LIFE

- 4-5 hours @ 70° F / 21°C.



4. CLEAN UP

- Use KC10 Wax & Grease Remover, KC20 Post Sanding Cleaner.



5. ADDITIVES

- N/A



6. SURFACE PREPARATION

- Allow the final coat of basecoat to dry to touch prior to applying clearcoat.
- Use a tack cloth to remove any surface contaminants that may have settled on the basecoat.



7. SUBSTRATES

- House of Kolor basecoat system.



8. APPLICATION

- Apply 2 even wet coats at 40-50 psi, allowing a 10-15 minute flash time between coats.



NOTE: Wet coats produce more gloss. Dry coats produce a flat finish.



9. FLASH / DRY TIMES

AIR DRY @ 77°F

Flash Between Coats	15 Minutes
To Deliver	30-45 Minutes

NOTE: Flash / dry time will vary by temperature.



10. GUN SET UP

- Refer to spray gun manufacturer manual.



11. PHYSICAL DATA

VOC as delivered"	Regulatory VOC lbs/gal	Regulatory VOC g/l	Material VOC lbs/gal	Material VOC g/l
FC21	2.5	294	1.0	117
KUF21	0.9	106	0.6	68
VOC (RTS)	-	-	-	-
FC21 / KUF21	2.1	254	0.9	110



GENERAL INFORMATION

URC01 Urethane Kosmic Rokket Klear is the fastest drying Klear House of Kolor has ever produced. Using state of the art polymer technology, we have developed a klear with excellent chemical, fuel, water resistance, and UV protection. URC01 is ideal for Bike Tin, small parts, jambing, intercoat over artwork, and all those quick jobs that you are still looking for, that show-ready finish that House of Kolor users crave. Urethane Kosmic Rokket Klear does not require a flash time between coats: wet on wet application.

NOTES: **DO NOT attempt to clear complete vehicle.** URC01 has been developed for use on small surfaces only. This product has an extremely fast dry time. Previous coats should be **FULLY FLASHED** or at **RECOMMENDED CURE TIME** before applying the URC01. **NOT RECOMMENDED** for application over the MC Kosmic Krome line, Urethane Kandy's, or use as a Kandy Karrier.



SUBSTRATE

- All House of Kolor standard basecoats, Solid Graphics and artwork.
- Properly cured and prepared OEM finishes

NOTE: Please refer to individual product tech sheets for proper system applications



COMPONENTS

- | | |
|---------|----------------------------------|
| • URC01 | Urethane Kosmic Rokket 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 |



MIXING RATIO

For 2.1 lb/gal (250 g/L) VOC Compliance (Low VOC) - (4:1:0-5% by volume)

- 4 parts URC01 Urethane Kosmic Rokket Klear
- 1 part KU152 Catalyst

Optional: 0-5% RU310 - 313 Series Reducers



PREPARATION

Please be aware that Shimrin2® bases, Kandy Basecoats 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 tech pages on KD3000 Series DTS Foundation Surfacer Sealers, or KP series. Under layers should be **FULLY FLASHED** or at **RECOMMENDED CURE TIME** before applying the URC01.



DRY TIME

- 10 minutes – Dust Free
- 30 minutes – Nib Sand & Buff
- 60 minutes - Wet Sand, buff & Deliver

NOTE:

- Dry times may vary due to air temperature, humidity, airflow, and film thickness.
- If cutting and buffing is desired, the product must be wet sanded and buffed within 3 - 4 hours after application.



FLASH TIME

- No flash time between coats for most surfaces. Apply two full wet-on-wet coats.
- Small or curved parts/objects with multiple inverted angles, **RECOMMEND** 1-2 minutes flash between coats. **DO NOT EXCEED** more than 5 minutes. Longer flash times between coats may cause dulling or flat appearance.



CLEAN UP

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


TECHNICAL DATA
FOR USA (National Rule & Low VOC) / Canada

RTS Regulatory Data	4 : 1 : 0 - 5 %	
	RU310-313 Series Reducers	
	LBS/GAL	g/L
Actual VOC	1.2 Max.	138 Max.
Regulatory VOC (less water & exempt sol- vents)	2.1 Max.	250 Max.
Density	8 - 10	960 - 1200
	Weight %	Volume %
Total Solid Content	28 - 40	28 - 39
Total Volatile Content	60 - 72	61 - 72
Water	0	0
Exempt Compound Content	45 - 65	45 - 65
Category	Clear Coat	

Note: US/Canadian regulations allow for the use of exempt compounds for VOC calculations.

FOR REST-OF-WORLD

RTS Regulatory Data	4 : 1 : 0 - 5 %	
	RU310-313 Series Reducers	
	LBS/GAL	g/L
VOC	7.2 Max.	865 Max.
Density	8 - 10	960 - 1200
	Weight %	Volume %
Total Solid Content	28 - 40	28 - 39
Total Volatile Content	60 - 72	61 - 72
Water	0	0
Category	Clear Coat	

Note: Rest-of-World considered areas outside US/Canadian.

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.

If used as instructed, this product is designed to comply with VOC standards in low-VOC jurisdictions. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.

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