

ULTRA 7000® 2.1 VOC Clearcoat CC21

PRODUCT DESCRIPTION:

ULTRA 7000® 2.1 VOC Clearcoat CC21 is a premium quality, high solids, urethane clearcoat designed for air dry and force dry environments. CC21 provides excellent gloss, DOI, leveling, blending, and buffing characteristics. CC21 is low in VOC at 2.1 pounds/sprayable gallon which meets VOC regulations of 3.5 pounds/gallon for basecoat/clearcoat composite.

TECHNICAL DATA:

•	Weight Solids @ the gun	44.2 - 44.7%	•	Recommended Dry Film Thickness	2 - 3 mil
•	Volume Solids @ the gun	43.5%			
•	Mixing Ratio by Volume	3:1:1	•	Maximum VOC (sprayable)	2.1 lbs/gal
	Clearcoat : Reducer : Hardener				_

• Viscosity (sprayable) #2 Zahn 15 – 17 sec

SURFACE PREPARATION:

- CC21 2.1 VOC Clearcoat is designed to be applied over ULTRA 7000® Basecoat Color.
- Preparation for Blending Panels (Prior to Basecoat Application):
- 1. Solvent clean with AQUA-MATE™ Low VOC Surface Cleaner W4K157, or ULTRACLEAN™ Surface Cleaner R7K158 and wipe dry with a clean cloth.
- 2. Blend panel should be sanded with P800 grit or finer sand paper on a random orbital sander or scuff sanded with a gray scotch bright and USP 90 Ultra Scuffing Paste and water.
- 3. Repeat step one, then thoroughly tack surfaces to be painted with a clean tack cloth.

MIXING BY VOLUME:

Mixing Clearcoat

In a clean container, mix 3 parts of CC21 Clearcoat to 1 part temperature dependent reducer R24 for cool conditions, R26 for normal conditions and R28 for hot conditions, to 1 part UH900 hardener. Stir thoroughly, making sure all parts are completely mixed together. Pot life of activated material will be 1 to 2 hours at 75°F.

• Mixing Basecoat – For 3.5 Basecoat/Clearcoat Composite:

If VOC of Basecoat Color is		Basecoat	UH900	
(lbs/gal)		Basecoat	Stabilizer	Hardener
Less than or equal to 5.55	Mix	1 part	1 part	None
5.56 to 5.80	Mix	16 parts	16 parts	1 part
5.81 to 6.15	Mix	16 parts	8 parts	1 part

Note: Hardener is not required in areas where Basecoat/Clearcoat VOC limit is higher than 3.5. **Pot life of Basecoat**: With hardener – 8 hours; without hardener – unlimited.

APPLICATION:

- Adjust air pressure to 9-10 psi at the cap* for HVLP/LVLP. Refer to Gun Recommendations listed on next page.
- Apply only 2 wet coats at a gun distance of 5-7 inches allowing each coat to become hand slick before applying the next coat. Apply second coat of clearcoat within 45 minutes of the first to prevent a possible recoat lift.
 - Wet-on-Wet/Limited Flash Application Please consult your technical representative for training on the Wet-on-Wet, Single Application (Limited Flash) technique. This technique enhances shop productivity once the technician has been trained. For single or two-panel repair: Apply even medium to light first coat to entire surface with gun distance of 4 to 6 inches. Flash for 2 to 5 minutes before second coat. For multi-panel (3 or more panels) repair: Follow first coat immediately with second coat. First coat should be even without missed areas but not heavy and wet. Flash time between coats not necessary. Check for proper atomization.
- If necessary, 1/2 1 oz of R7K6252 Universal Urethane Retarder per sprayable quart may be added to improve flow or to prevent dry edges in extreme temperature conditions.

- 4. To blend clearcoat edge, overreduce clear by adding 1-2 additional parts of BS9. Use this material as a blending solvent to melt clearcoat edge. If using siphon gun, reduce pressure to 25-30 psi at the gun. DO NOT OVER REDUCE CLEARCOAT WITH BS10.
 - <u>Optional 2-gun method</u>: To blend clearcoat edge, use BS10 Ure-Blend in second gun at low pressure 20-25 psi conventional and 5 psi HVLP cap pressure. Apply only enough blending solvent necessary to melt blend edge.
 - IMPORTANT: Clean spray gun immediately after use with Gun and Equipment Cleaner R7K105.
- 5. Blend Panel Repair When blending basecoat color into an adjecent panel and clearcoating the entire panel, spray one coat of clearcoat over the new basecoat color. Then spray second coat of clearcoat over the entire panel limiting the clearcoat to one coat (1 mil) directly next to the unclearcoated OEM finish. Can be "Limited Flash" application.

*For proper atomization, it is critical to check air cap pressure with manufacturer's kit.

RECOMMENDED GUNS:

					Recommended
Gun Type	Mfg.	Gun Model	<u>Nozzel</u>	Air Cap	Air Pressure
HVLP Gravity Feed	Sata	NR2000	1.3-1.4 mm	Use one supplied	*10psi at cap
HVLP Gravity Feed	Sata	NR95	1.3/1.5 mm	Use one supplied	*10 psi at cap
HVLP Gravity Feed	DeVilbiss	GTI	1.3/1.5 mm	#2000	*10 psi at cap
HVLP Gravity Feed	Sharpe	SGF98	1.3/1.5 mm	Use one supplied	*10 psi at cap
Conv. Gravity Feed	Sata	Jet 90	1.3/1.4 mm	Use one supplied	40-50 psi
Conv. Gravity Feed	Sharpe	SGF98	1.2 mm	#C	40 psi

^{*}Use specific spray gun manufacturer air cap test kit to verify the appropriate air cap pressure for proper atomization.

DRYING SCHEDULE:

Dry times are based on the recommended dry film thickness of 0.5-1.5 mils for basecoat color and 2.0 - 2.5 mils for clearcoat, thicker films will extend drying times.

■ Air Dry Times: Dust Free 50 – 70 min at 75°F

To Buff overnight

■ Force Dry Times: 140°F 30 min

150°F 20 min To Buff 3 – 4 hours

BUFFING:

- If buffing of ULTRA 7000® Clearcoat CC21 is needed due to dirt:
- 1. Allow the Clearcoat to cure. Sand with 1500 to 2000 grit sandpaper followed by cross-sanding with 2000 to 2500 grit sandpaper checking frequently with a rubber squeegee to ensure that the scratches are being removed.
- 2. Buff by machine with polishing pad using a quality microfinishing compound, follow with a microfinishing glaze. For ultimate in appearance, hand glaze with a soft clean cloth.

^{*}Adjust fluid control for proper delivery and atomization.

PRODUCT AT-A-GLANCE

PRODUCT

ULTRA 7000® 2.1 VOC Clearcoat

CC21

USE

- An easy-to-apply, high-gloss Acrylic Urethane System with excellent durability.
- Matches OEM basecoat/clearcoat colors.
- Uses unique Basecoat Stabilizers that control color blending.
- CC21 is low in VOC at 2.1 pounds/sprayable gallon which meets VOC regulations of 3.5 pounds/gallon for basecoat/clearcoat composite.

BASECOAT SUITABLE SUBSTRATES

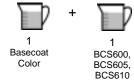
- OEM topcoats
- Aged refinishes
- Ultra 7000® Basecoat colors

SURFACE PREPARATION

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- 2. Blend panel should be sanded with P800 grit or finer sand paper on a random orbital sander or scuff sanded with a gray scotch bright and USP 90 Ultra Scuffing Paste and water.
- 3. Repeat step one, then thoroughly tack surfaces to be painted with a clean tack cloth.

MIXING

*Basecoat Stir or shake color thoroughly



CC21 Clearcoat



*NOTE: If VOC of Basecoat Color is less than or equal to 5.55 lbs/gal, mix Basecoat at 1 part Basecoat to 1 part Basecoat Stabilizer.

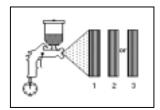
If VOC of Basecoat Color is between 5.56 and 5.80, mix Basecoat 16 parts Basecoat to 16 parts Basecoat Stabilizer to 1 part Hardener.

If VOC of Basecoat is between 5.81 to 6.15, mix Basecoat 16 parts Basecoat to 8 parts Basecoat Stabilizer to 1 part Hardener.

APPLICATION

Basecoat

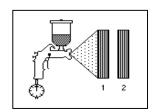
Apply 2-3 medium coats. Allow each coat to flash until hand slick before next coat.



7-9 psi at air cap for HVLP guns

Clearcoat

Apply **only 2 wet** coats, allowing each coat to become hand slick before applying next coat. For Wet-on-wet application see previous page.



10 psi at air cap for HVLP guns

RECOAT

Recoat basecoat colors before 7 days or remove basecoat color.

NOTES

- · Basecoat will appear flat when dry.
- Do not use fisheye eliminators in basecoat color or clearcoat CC21 as it will adversely affect the adhesion of the clearcoat.
- Do not scuff, sand (wet or dry), or solvent clean basecoat colors. (Small areas may be wet sanded to remove dirt.)
- To improve chip resistance, use 1 ounce of UH-80 to 1 sprayable quart of ULTRA 7000® basecoat.

PERSONAL PROTECTION

- Read all label directions before use.
- · Refer to MSDS for specific information.
- Wear a positive air respirator or when mixing and applying.
- Wear a NIOSH approved dust particulate mask when sanding.
- Wear safety glasses, shoe covers, coveralls and latex gloves, stretch hood when using this product.

P R O D U C T

A T

To learn more about Sherwin-Williams Automotive products, visit our Web site at www.sherwin-automotive.com