

AG 40LV

2.1 VOC URETHANE CLEARCOAT

Technical Data Sheet

Technical Hotline 800.735.0303

PRODUCT NUMBER

AG 40LV

DESCRIPTION

2.1 VOC URETHANE CLEARCOAT

HARDENERS

AH-201
AH-202
AH-203

DESCRIPTION

2.1 VOC FAST URETHANE HARDENER
2.1 VOC MEDIUM URETHANE HARDENER
2.1 VOC SLOW URETHANE HARDENER

REDUCERS

NOT RECOMMENDED

DESCRIPTION

NOT RECOMMENDED

DESCRIPTION

AG 40LV is a high solids acrylic urethane clearcoat with a sprayable VOC of 2.1 lbs/gal (using EPA test method 24). AG 40LV provides excellent flow and leveling for applications requiring a high gloss, eurostyle premium appearance. AG 40LV can be used over all solvent based and water based basecoats and will dry to a glass like finish in air or forced dry conditions.

**Tech Tip:* The use of urethane grade solvents will increase the VOC of AG 40LV above the 2.1 lbs/gal compliance regulation, and may contribute to solvent pop, delamination or other related problems.

COMPATIBLE BASECOATS/TOPCOATS

- MPB
- MSB
- MAU*
- MCU*
- AWB
- DBU®
- DBC®
- DAU®*
- Omni®*
- CHROMAPREMIER®
- CHROMABASE®
- Nason®
- Dimension®
- Ultra 7000®
- GLASURIT 55®
- LIMCO SUPREME®
- Autobase®

**Tech Tip:* For clearcoat integration technique refer to specific manufacturers single stage finish technical data sheet.

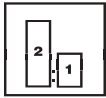
SURFACE PREPARATION



1. Allow the final coat of basecoat to dry 30 minutes prior to applying clearcoat.
2. Use a tack cloth to remove any surface contaminants that may have settled on the basecoat.
3. Apply AG 40LV Clearcoat.

**Tech Tip:* Extend basecoat dry time to 30 minutes when applying several base color coats, tri coat colors, multiple graphic overlays, or in cooler shop conditions.

MIXING RATIO



AG 40LV : AH-201, 202, 203
2 Parts : 1 Part

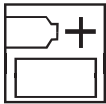
POT LIFE



<u>Hardener</u>	<u>Time</u>	<u>Temp</u>
AH-201	1-3 Hours	77°F
AH-202/203	2-4 Hours	77°F

**Tech Tip:* Pot life will shorten as temperatures increase. Matrix System products are not recommended for use in temperatures below 65° F.

ADDITIVES



ACCELERATOR

Use up to 1/2 fluid ounce of MX-081 Accelerator per sprayable quart. The addition of MX-081 will reduce cure times and pot life by 50%. The use of MX-081 will not increase VOC in area where acetone is exempt.



FISH EYE

The use of fish eye eliminator is strongly discouraged. If a fish eye additive is needed, use MX-01 urethane fish eye eliminator, mix 1/2 ounce per sprayable quart. Use no more than necessary as it will directly affect the flow out of AG 40LV.

APPLICATION

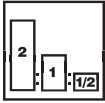


Apply 2-3 flowing coats at 40-50 psi or (6-10 psi when using HVLP at the aircap), allowing a 10-15 minute flash time between coats. Keep spray gun 6-10 inches from substrate to avoid problems associated with air entrapment.



<u>GUN TYPE</u>	<u>HVLP</u>	<u>Conventional</u>
<u>SIZE</u>	1.3 - 1.7 mm	1.3 - 1.7 mm
<u>PSI</u>	6 - 10 at Aircap	40 - 50 at Gun

APPLICATION CONT'D



PAINTING FLEXIBLE PARTS

A flexible additive may be needed when painting certain flexible parts.

AG 40LV : AH-201,202,203 : MX-841
2 Parts : 1 Parts : 1/2 Part

***Tech Tip:** Full panel only when part is off the vehicle, it is not necessary to add MX-841 when the part is mounted on the vehicle. Reference the MX-841 Technical data Sheet for additional information.



BLENDING

Dry edges can be blended in by reducing RTS clearcoat 100%-150% and lightly misting the area to be blended out.

***Tech Tip:** When blending clearcoat, use MR-Reducer one temperature range slower than was used during application (i.e. MR-0870 used during application, switch to MR-0885 to blend clearcoat edge in).

DRY & FLASH TIME INFORMATION



DRY TIMES AT 77° F

	<u>AH-201/202</u>	<u>AH-203</u>
DUST TIME	20-30 MINUTES	30-40 MINUTES
TACK TIME	40-45 MINUTES	40-45 MINUTES
TO DELIVER	10-16 HOURS	10-16 HOURS



FORCE DRYING AT 140° F

PURGE TIME	10-15 MINUTES
BAKE TIME AT 140°F	40 MINUTES

REPAIRING & RECOATING



AG 40LV may be recoated after a 8-10 hour dry at 77° F, or after a minimum 1 hour cool down after force drying at 140° F for 40 minutes.

BUFFING



Allow 2 hours before sanding or buffing AG 40LV. Temperature, humidity and film thickness will affect buff times. When force drying, allow 1 hour cool down before buffing or polishing AG 40LV.

EQUIPMENT CLEANUP



Clean equipment immediately after use with MX-110 Gun Wash or a high quality lacquer thinner.

TECHNICAL DATA

Clear: 2 parts AG 40LV
Hardeners: 1 part AH-201,202,203
Viscosity (RTS): 18 - 20 seconds #2 Zahn
Weight Solids (RTS): 43%
Film Build: 1.0 mils per full wet coat
Coverage: 549 sq. ft. per gallon @ 1 dry mil

V.O.C. as Delivered:	Regulatory VOC in LBS./GAL.	Regulatory VOC in G./L.	Material VOC in LBS./GAL.	Material VOC in G./L.
AG 40LV	2.6	309	1.5	185
AH-201	0.9	106	0.4	54
AH-202	0.9	106	0.4	54
AH-203	0.9	106	0.4	54
V.O.C. (RTS):				
AG 40LV/AH-201	2.1	248	1.2	141
AG 40LV/AH-202	2.1	248	1.2	141
AG 40LV/AH-203	2.1	248	1.2	141

Disposal/Safety: see MSDS for this product
Humidity Resistance: Excellent
Salt Spray Resistance: Excellent
MSDS Reference #: MX-SD2

FOR INDUSTRY USE ONLY Read MSDS Before Use

The contents of the package must be blended with other components before the product can be used. Any mixture of components will have hazards of all components. Before opening the packages, read all warning labels. Follow all precautions. The material is designed for application only by professionally trained personnel using proper equipment under controlled conditions, and is not intended for sale to the general public.

SEE MSDS AND PRODUCT LABELS FOR ADDITIONAL SAFETY INFORMATION.

NOTE: Matrix Systems products are not recommended for use in temperatures below 65°F. Use below these temperatures will effect dry times and performance.

Put it to the test!
www.matrixsystem.com