

5 STAR ADVANTAGE AUTOBODY PRODUCTS®
TECHNICAL DATA INFORMATION
DATED: FEBRUARY 2024

PRODUCT DESCRIPTION:

5 STAR ADVANTAGE Autobody Products®

PREMIUM Acrylic Urethane 2.8 VOC Single Stage Colors are high solids, high gloss, low VOC coatings intended for use as PREMIUM protective maintenance on automotive and industrial applications, surfaces exposed to humidity, everyday weathering, dangerous chemicals, stone chips and corrosive elements such as harmful UV exposure. Designed to deliver tough exterior durability needed to protect your vehicles & equipment. Manufactured with only the highest quality materials to always provide long lasting beautiful color.

IMPORTANT NOTE:

PLEASE SHAKE THEN STIR ALL PRODUCTS THOROUGHLY BEFORE USE.

#8700 SERIES SINGLE STAGE COLOR (.75 Gallon / .75 Quart):

PREMIUM URETHANE SINGLE STAGE SERIES 2.8 VOC

*** Supersedes 5 STAR 8000 series & ADVANTAGE 700 series**

****NEW 2024 COLORS!**

#8700-1	Gloss Black / Noir Brillant	4/case
#8700-4	Gloss Black / Noir Brillant	6/case
#8701-1	Hot Rod Black (Satin) / Hot Rod Noir (Satinè)	4/case
#8701-4	Hot Rod Black (Satin) / Hot Rod Noir (Satinè)	6/case
#8702-1	Brilliant Black Pearl / Noir Brillant Nacrè	4/case
#8703-1	Gloss White / Blanc Brillant	4/case
#8703-4	Gloss White / Blanc Brillant	6/case
#8704-1	Fleet White / Blanc de Flotte	4/case
#8704-4	Fleet White / Blanc de Flotte	6/case
#8709-1	Galaxy SilverMetallic / Argent Métallisé Galaxie	4/case
#8710-1	Viper Red / Rouge Vipère	4/case
#8712-1	Candy Apple Red / Rouge Pomme Bonbon	4/case
#8716-1	School Bus Yellow / Jaune Autobus	4/case
#8721-1	Mack Red / Mack Rouge	4/case
#8722-1	Ghost Grey / Gris Fantome	4/case
#8723-1	Blue Metallic / Bleu Metallise	4/case
#8724-1	Mack Blue / Bleu Mack	4/case
#8725-1	Viper Yellow / Vipere Jaune	4/case
#8726-1	Mack Green / Mack Vert	4/case
#8727-1	Medium Charcoal Gray Metallic / Gris Anthracite Moyen Metallise	4/case

SINGLE STAGE ACTIVATORS (QUART & HP)

8729-04		Premium 2.8 VOC Single Stage Activator Medium (Mid-Temps)	Quart 12/cs
8729-16		Premium 2.8 VOC Single Stage Activator Medium (Mid-Temps)	Quart 12/cs
8730-04		Premium 2.8 VOC Single Stage Activator Slow (High-Temps)	1/2pt 6/cs
8730-16		Premium 2.8 VOC Single Stage Activator Slow (High-Temps)	1/2pt 6/cs

SUBSTRATES:

Properly prepared 2K Urethane Primer Surfacer, DTM Epoxy Primer Surfacer, OE Finishes and other fully cured automotive-grade primers.

Performance is best when using our 5 STAR #5425/ADVANTAGE #325 DTM Primer under #8700 series paint.

NOTE #8701: Hot Rod Black (Satin) : An overall mid-coat (adhesion promoter) or prime/sand is suggested for best corner adhesion.

POT LIFE

Pot life will be about 2 hours at 70° F. Mix only as much material needed to complete the current job application.

MIXING DIRECTIONS (3:1):

2.8 VOC

3 PARTS #8700 Series Single Stage Color

1 PART #8729 Medium (70-75°F Mid Temps) or #8730 Slow (75°F+ High Temps) Activator

*Choose speed according to conditions at time of application and size of job.

** No additional reduction is required, though reducing the 3:1 mix may improve sprayability and will decrease the total film build, which is desirable in situations where a sealer is called for. Adding reducer may alter the RTS VOC and could render non-compliant for use in certain areas.

GUN SETTINGS:

Always refer to gun manufacturer's recommendations for additional details on suggested tip size, air pressure and other adjustments.

<u>GUN TYPE</u>	<u>TIP SIZE</u>	<u>AIR PRESSURE</u>
Conventional Siphon	1.2 - 1.6 mm	40-50 psi
Conventional Gravity	1.2 - 1.5 mm	40-50 psi
HVLP	1.2 - 1.4 mm	8-10 psi

SURFACE PREPARATION:

1. Wash area thoroughly with soap and water to remove contaminants that solvent based cleaners cannot remove effectively.
2. Clean area with Wax and Grease Remover.
3. Use a tack cloth to remove any surface contaminants that may have settled on the repaired areas prior to paint application.
4. Abrade

substrate with 600-800 grit to ensure sufficient adhesion. 5. Reclean with Final Wash. 6. For best results apply 5 STAR XTREME #5425 / ADVANTAGE #325 DTM Primer then apply #8700 series PREMIUM Urethane Single Stage Color.

APPLICATION DIRECTIONS:

Apply #8700 Series Color in 2-3 medium wet coats as necessary to achieve the desired coverage, allowing 5-10 minutes flash time between coats (+/- depending on air flow and temperature). A final coat may be fogged on as necessary to set even metallic pattern and prevent mottling. A dry film thickness of 2 mils is recommended.

When applying pearl or metallic colors, choice of undercoat color becomes more important. Because less pigment is used to make certain colors (to maintain pearlescent and/or metallic effects), these colors may require additional coats to achieve full coverage. In these situations, a uniform undercoat color, a sealer, or a solid color "Ground coat" will significantly improve the appearance and hiding efficiency of 5 STAR ADVANTAGE topcoats.

When using #8700 Series Color in combination with one of 5 STAR or ADVANTAGE urethane clearcoats, color may be applied "dry," as an activated basecoat. Doing so increases ability to apply even spray pattern and minimizes chances of mottling in metallic/pearl colors. Once final coat has had sufficient time to flash, #8700 Series color may be clear coated with any of our urethane clear systems for up to 18 hours. After 18 hours, surface must first be abraded to promote adhesion.

Another option includes integrating one of 5 STAR ADVANTAGE's urethane clearcoats into the final coat of #8700 Series for increased gloss and durability in a single-stage application. This step is not necessary when planning to apply a separate clearcoat. Our clears and #8700 Series colors may be mixed at any ratio, as long as care is taken to first properly mix both the paint and the clear with their correct activators, at the correct ratios.

DRY TIMES:

Air dry times may vary slightly depending on shop temperatures, airflow and total film thickness. All dry times listed are approximate at 70-75°F:

	<u>AIR DRY</u>	(bake 40 mins at 140°F) <u>FORCE DRY</u>
Dust Free:	15-20 min.	End of cycle
Tack Free:	1 hour	End of cycle
Tape:	8 hours	20 minutes after cycle
Polish:	8-12 hours	20 minutes after cycle
Full Cure:	18 hours	20 minutes after cycle
Stripe:	Next Day	20 minutes after cycle
Deliver:	Next Day	20 minutes after cycle
Decal:	48 hours	20 minutes after cycle

RECOATING:

#8700 Series Color can be recoated for up to 18 hours at (70°-75°F). After 18 hours, surface must first be abraded with 600-800 grit to promote sufficient adhesion before recoating.

COLOR

If using multiple cans of the same color for the same job, be sure to check for a common batch code before starting. This can be identified on the white label front of can. If batches are not the same, all materials should be blended prior to use to ensure color consistency. Every attempt was made to ensure color consistency from batch to batch.

POLISH:

In single-stage applications: After eight (8) hours dry time, #8700 Series Color may be sanded with 1500 grit or finer to abrade surface and / or remove dust nibs and other imperfections such as orange peel, then with 2000 grit or finer to remove 1500-grit scratches.

Great care should be taken when sanding metallic colors. Only abrade surface lightly. Do not cut too deep into film, as aluminum flake rests just beneath surface. Use a wool pad or foam pad in combination with a high-quality finishing compound, following material manufacturer's instructions.

Follow with a high-quality finishing glaze applied either by hand, or variable speed buffer.

CLEAN-UP:

Close all containers tightly after each use. Clean spray equipment immediately after use with 5 STAR ADVANTAGE Gun Wash, or a high quality lacquer thinner, or compliant solvent depending on area regulations.

TECHNICAL DATA:

Color:	Various
Activators:	#8729 / #8730
Mixing Ratio (2.8 VOC):	3:1
Package Measure:	3/4 US Gallon / 96 fl. oz. / 2.83 Liters 3/4 US Quart / 24 fl. oz. / .70 Liters
Weight Solids (RTS):	36 - 45%
RTS Viscosity	20-22 Seconds, #2 Zahn cup
Pot Life:	2 Hours at 70°F
Film Build per coat:	1.0-2.0 mils per full wet coat
Optimum Dry Film Build:	2.0 mils dry
Coverage:	Approximately 400-450 sq.ft. per .75 gallon @ 1 dry mil
Disposal/Safety:	See SDS for this product

Actual VOC / Regulatory VOC (per color)

#8700	<u>Gloss Black / Noir Brillant</u> Actual VOC (as supplied): 193.21 g/l (1.61 lbs/gal) Regulatory VOC (as supplied): 327.43 g/l (2.73 lbs/gal)
#8701	<u>Hot Rod Black (Satin) / Hot Rod Noir (Satinè)</u> Actual VOC (as supplied): 179.63 g/l (1.50 lbs/gal) Regulatory VOC (as supplied): 344.19 g/l (2.87 lbs/gal)
#8702	<u>Brilliant Black Pearl / Noir Brillant Nacré</u> Actual VOC (as supplied): 196.43 g/l (1.64 lbs/gal) Regulatory VOC (as supplied): 318.59 g/l (2.65 lbs/gal)
#8703	<u>Gloss White / Blanc Brillant</u> Actual VOC (as supplied): 219.47 g/l (1.83 lbs/gal) Regulatory VOC (as supplied): 338.62 g/l (2.82 lbs/gal)
#8704	<u>Fleet White / Blanc de Flotte</u> Actual VOC (as supplied): 219.47 g/l (1.83 lbs/gal) Regulatory VOC (as supplied): 338.62 g/l (2.82 lbs/gal)
#8709	<u>Galaxy Silver Metallic / Argent Métallisé Galaxie</u> Actual VOC (as supplied): 225.24 g/l (1.88 lbs/gal) Regulatory VOC (as supplied): 378.12 g/l (3.15 lbs/gal)
#8710	<u>Viper Red / Rouge Vipère</u> Actual VOC (as supplied): 204.35 g/l (1.70 lbs/gal) Regulatory VOC (as supplied): 336.73 g/l (2.81 lbs/gal)
#8712	<u>Candy Apple Red / Rouge Pomme Bonbon</u> Actual VOC (as supplied): 200.54 g/l (1.83 lbs/gallon) Regulatory VOC (as supplied): 326.36 g/l (2.82 lbs/gallon)
#8716	<u>School Bus Yellow / Jaune Autobus</u> Actual VOC (as supplied): 193.56 g/l (1.61 lbs/gal) Regulatory VOC (as supplied): 309.59 g/l (2.58 lbs/gal)
#8721	<u>Mack Red / Mack Rouge</u> Actual VOC (as supplied): 198.10 g/l (1.83 lbs/gallon) Regulatory VOC (as supplied): 321.39 g/l (2.82 lbs/gallon)
#8722	<u>Ghost Grey / Gris Fantome</u> Actual VOC (as supplied): 172.69g/l (1.83 lbs/gallon) Regulatory VOC (as supplied): 259.45 g/l (2.82 lbs/gallon)

#8723 **Blue Metallic / Bleu Metallise**
Actual VOC (as supplied): 215.95 g/l (1.61 lbs/gallon)
Regulatory VOC (as supplied): 362.91 g/l (2.73 lbs/gallon)

#8724 **Mack Blue / Bleu Mack**
Actual VOC (as supplied): 206.90 g/l (1.61 lbs/gallon)
Regulatory VOC (as supplied): 345.20 g/l (2.73 lbs/gallon)

#8725 **Viper Yellow / Vipere Jaune**
Actual VOC (as supplied): 217.92g/l (1.61 lbs/gallon)
Regulatory VOC (as supplied): 360.49g/l (2.73 lbs/gallon)

#8726 **Mack Green / Mack Vert**
Actual VOC (as supplied): 211.26 g/l (1.61 lbs/gallon)
Regulatory VOC (as supplied): 357.51 g/l (2.73 lbs/gallon)

#8727 **Medium Charcoal Gray Metallic / Gris Anthracite**
Moyen Metallise
Actual VOC (as supplied): 208.64 g/l (1.61 lbs/gallon)
Regulatory VOC (as supplied): 351.19 g/l (2.73 lbs/gallon)

NOTE: 5 STAR ADVANTAGE products are not recommended for use in temperatures below 60° F. Use below these temperatures will affect dry times and performance.

FOR PROFESSIONAL USE ONLY

Read SDS 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 SDS AND PRODUCT LABELS FOR ADDITIONAL SAFETY INFORMATION. FOR EMERGENCIES, SPILLS, EXPOSURE, LEAKS CALL CHEMTREC (24/HR): 1-800-424-9300 / CHEMTREC INTERNATIONAL (001)703-527-3887

WWW.5STARADVANTAGE.COM

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