8-407 / 8-409 HS Low Gloss Clear Coat

HS Low Gloss Clear Coat HS Semi Gloss Clear Coat

GENERAL INFORMATION

8-409 HS Semi Gloss Clear Coat is a premium system that consists of 8-407 HS Low Gloss Clear Coat and 8-409 HS Semi Gloss Clear Coat, with a dedicated hardener and thinner. This versatile clear coat system was specially developed to reproduce a wide range of gloss levels through mixing of the 8-407 HS Low Gloss Clear Coat and 8-409 HS Semi Gloss Clear Coat. This is a high quality polyurethane clear coat system, with high durability, for application over MM 500-5999 BeroBase 500 Series and MM 900-9999 WaterBase 900° Series. Suitable for panel or full body repairs with very good drying and application properties.

MIXING RATIO



3:1+25%

Once you have created your gloss level mixture, mix:

8-407 and 8-409 HS Gloss Level Mixture: 3 parts 8-455 HS Matt Hardener: 1 part 8-451 HS Matt Thinner + 25 %

GLOSS LEVELS



GLOSS LEVELS	8-407 LOW GLOSS (WT % OR VOL %)	8-409 SEMI GLOSS (WT % OR VOL %)	
M1	70	30	0 - 10
M2	50	50	10 - 20
МЗ	30	70	20 - 30
M4	20	80	30 - 45
M5	0	100	45 - 60

See ICRIS for complete weight conversion.

To verify the gloss level and color match, it is recommended that a test panel is sprayed before the vehicle is repaired. Refer to the HS Matt level swatches for additional information.

GUN SET UP



	NOZZLE (MM)	AIR PRESSURE (BAR / PSI)
HE	1,3-1,4	1,8-2,0/26-30

APPLICATION



 $2\frac{1}{2}$ coat 45-60 µm (1.8-2.4 mil)

Recommended application temperature is 15-30°C (59-86°F)



0,5 COAT (@ 20 CM /IN)	10 - 15 MINUTES FLASH OFF
	15 - 20 minutes flash off between cross layers
Before Force Cure	30 minutes flash off

- (1) Recommended application temperature is 15-30°C (59-86°F)
- (2) The mist layer & flash-off period between coats and prior to baking is critical for the gloss level and even appearance.
- (3) Cross layer application is important. The flash-off times may vary depending on application conditions. Film thickness and application technique are also important. Thin films and dry application will give lower gloss, while thick films and heavy application will give higher gloss.

NEXT LAYER



FLASH OFF AND DRY TIMES





FORCED DRY

All times above depend on the layer thickness and temperature.

INFRARED DRYING



AFTER FULL FLASH OFF (30 MINUTES) AND AT PROPER DISTANCE		
Medium Wave	15-20 minutes	
Short Wave	10-15 minutes	
See IR Manufacturer information		

SUBSTRATES



MM 500 - 5999 BeroBase 500 Series and MM 900 - 9999 WaterBase 900 $^{\circ}$ Series

POT LIFE AT 20°C / 68°F



60 minutes

COMPONENTS



8-455 HS Matt Clear Coat Hardener 8-451 HS Matt Clear Coat Thinner

ADDITIVES



SURFACE PREPARATION



Base coat should be fully dry. See the supplementary information or associated system technique.



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. © 2012 The Valspar Corporation. All rights reserved.



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PHYSICAL DATA

EU REGULATIONS					
VOC Code		2004/42/IIB(e)(840)560			
Product sub category (according directive 2004/42/EC) and max VOC content (ISO 11890-1/2) of the ready to use product.		IIB/e. Special finishes - All types. EU limit values: 840 g/L (2007). This product contains a maximum of 560 g/L VOC.			
Chemical Base	2K Polyurethane Finish Matt				
Physical Properties	Viscosity (RTS)	14 - 19 Dincup 4 / 20°C			
	Specific Gravity (kg/l)	0,978			
	Flash Point Closed Cup	27°C / 80,6°F			
	Volume % Solids	36,3			
	Economy	7,2 m²/L/50 μm			
		290 ft²/Gal/2 mil			
	Gloss	Variable Gloss			
	Colour	Semi Opaque			

Check local regulations before use.

PROTECTION

Use suitable respiratory protection (fresh air supply respirator is strongly recommended).



For more detailed information please visit the following link for the Safety Data Sheet:

https://sds.de-beer.com/en/debeer/choose_localization

CLEAN UP



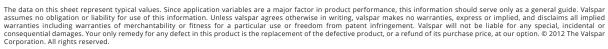
1-051 Gun Cleaner

STORAGE/SHELF LIFE

Minimum 2 years; (Under normal storage conditions 10°C - 30°C / 50°F - 90°F) (unopened container).



NOTES



CARE GUIDE FOR BODYSHOPS



REPAIR PREPARATION AND APPLICATION



It's important to prepare an existing matt system finish correctly. In particular:

- Keep the repair area completely clean. Use the recommended DeBeer cleaners and tack cloths on all repair areas during all stages
 of the repair. We always recommend wearing clean gloves.
- Check before applying masking tape. An existing matt clear finish may be affected by masking tape adhesive. Test your tape on a low-visibility area of the car first, and look to see if it marks the film or affects the gloss. Minimise the time that the masking tape is in contact with the existing finish, and remove any tape prior to force-curing the repair.
- Ensure your final coat is free of dust/dirt. Small dirt nibs can be removed from the existing layers of a matt clear system and the basecoat layers as normal. However it's not possible to remove dust/dirt from the final matt clear coat. If imperfections are present, you'll need to respray the panel(s). Matt clear coat panel blending is not possible with this type of system.
- Spray a test panel first. OEM matt system finishes vary, and can change over time, which is why this versatile system was
 specially developed to reproduce a wide range of gloss levels. To verify the gloss level and colour match of any matt clear coat
 system, you should spray a test panel before the vehicle is repaired. Refer to the DeBeer Matt Clear Swatch for additional colour
 and gloss information.



CARE GUIDE FOR BODYSHOPS

Applying DeBeer Matt Clear

The application guidelines in the Technical Data Sheet (TDS) provide the best advice for a successful repair. The following points are important:



- The flash-off period between coats and prior to baking is critical for the gloss level and an even appearance.
- Flash-off times may vary depending on application conditions.



- Cross layer application is essential.
- Film thickness and application technique affect the finish. Thin films or dry application will give a lower gloss appearance, while thick films or heavy wet application will give a higher gloss appearance.

CLEANING. PRESSURE-WASHING AND DRYING VEHICLES AFTER MATT CLEAR REPAIRS



When vehicle cleaning is required, here are the products and the procedure we recommend:

Recommended products

- Pressure washer 80 bar (1200 psi) or less rated. The tip should be 45° or larger, and held at least 30 cm (12 inches) from the surface. Do not hold the spray in one place for extended periods. Keep the nozzle in motion.
- · Soft microfiber cloths/sponges.
- $\bullet \quad \text{Matt finish cleaner or gentle non-abrasive soaps. Always follow the manufacturer's dilution instructions and recommendations.}$
- · Two large buckets with dirt separators.

Recommended procedure

- · Pre-wet the vehicle with a pressure washer to cool and remove the large areas of dirt that could damage the vehicle finish.
- · Fill one bucket with soap and water, and the second bucket with clean water.
- Take turns during the washing process to rinse the microfiber cloths/sponges out, to remove any dirt from the cloth/sponge that may scratch the finish, and to keep the soap solution as clean as possible.
- · Rinse the area completely before moving onto a new one.
- $\boldsymbol{\cdot}$ $\,$ To dry, use a clean soft damp microfiber cloth to remove the excess water.

