

GENERAL INFORMATION

CM269 HS Semi Gloss Clear Coat is a premium system that consists of CM267 HS Low Gloss Clear Coat and CM269 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 CM267 HS Low Gloss Clear Coat and CM269 HS Semi Gloss Clear Coat. This is a high quality polyurethane clear coat system, with high durability, for application over B00 - B999 Octabase System and W00 - W999 Octabase Eco Plus System. 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:

CM267 and CM269 HS Gloss Level Mixture:
3 parts HM260 HS Matt Hardener: 1 part TM261 HS Matt Thinner + 25%,

GLOSS LEVELS



GLOSS LEVELS	CM267 LOW GLOSS (WT % OR VOL %)	CM269 SEMI GLOSS (WT % OR VOL %)	GLOSS UNITS (60°)
M1	70	30	0 - 10
M2	50	50	10 - 20
M3	30	70	20 - 30
M4	20	80	30 - 45
M5	0	100	45 - 60

See COINS 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



2½ 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
2 medium-wet closed coats with cross layer application	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



AIR DRY 20°C / 68°F		FORCED DRY 60°C / 140°F	
Flash off	-	Flash off	30 minutes
Dust free	10 - 15 minutes	Dust free	-
Dry to handle	2 - 3 hours	Dry to handle	40 minutes
Dry to tape	4 - 5 hours	Dry to tape	After cooling down
Dry to sand	-	Dry to sand	After cooling down
Dry to polish	-	Dry to polish	After cooling down

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



B00 - B999 Octabase System and W00 - W999 Octabase Eco Plus System

POT LIFE AT 20°C / 68°F



60 minutes

COMPONENTS



HM260 HS Matt Clear Coat Hardener
TM261 HS Matt Clear Coat Thinner

ADDITIVES



-

SURFACE PREPARATION



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



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)	0,994
	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.octoral.com/en/octoral/choose_localization

CLEAN UP



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 Octoral 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 Octoral Matt Clear Swatch for additional colour and gloss information.

APPLYING OCTORAL 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.
- 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.
- To dry, use a clean soft damp microfiber cloth to remove the excess water.



CARE GUIDE

FOR CAR OWNERS

CARE AND MAINTENANCE



The Octoral Matt Clear Coat used on your vehicle is a unique finish, and requires special care to maintain an even appearance.

Keeping the matt finish pristine

Matt finishes of this type can become marked with day to day use – areas such as door handles and edges, the bonnet, any removable roof and the fuel filler flap can change in appearance with regular contact. Before touching bodywork check that your hands are clean and free of oils or hand care products. If you do need to handle areas of the vehicle, we recommend the use of clean gloves.

DOS AND DON'TS

Fuel spills

- ✓ Do use soft clean damp microfibre towels to protect the finish or remove any fuel as soon as possible (see also Quick Spot Cleaning guidelines).
- ✗ Don't spill or drip fuel onto the matt finish.

Washing and cleaning

- ✓ Do use a soft damp microfibre cloth or sponge, and wipe area gently.
- ✗ Don't allow water drip lines to repeatedly form and dry.
- ✓ Do use products designed for a matt finish only. Unlike a high gloss finish, damage to a matt coating (scratches, scuffs, etc.) cannot be polished or buffed out. Once an area is damaged or becomes shiny, the matt appearance cannot be restored without repair.
- ✗ Don't use paint cleaners, abrasives, polishes, glazes, waxes, or rubbing compounds – most of these products are meant for high gloss finishes.
- ✓ Do wipe the finish lightly, moving forward and backward.
- ✗ Don't polish or rub the finish aggressively, especially in a circular motion. Polishing will lead to a higher, uneven gloss effect.
- ✓ Do use a soft damp microfibre cloth. A dry towel may damage the finish.
- ✗ Don't use paper towel, terrycloth or abrasive cloth for wiping.
- ✓ Do wash by hand with a soft microfibre cloth/sponge, mild soap, and frequent rinsing. Washing too often can create areas of uneven gloss.
- ✗ Don't use automated car washing facilities, hand-held mechanical cleaners/polishers, or wash too often.
- ✓ Do wash in a cool shaded area.
- ✗ Don't wash in direct sunlight.
- ✓ Do wipe away any excess from wheels/tyres or allow to dry before driving.
- ✗ Don't leave wet wheel/tyre polish or cleaner on the wheel – it may spray/splatter on the finish during driving.



QUICK SPOT CLEANING



When spot cleaning is required to remove something that may harm the finish (bird droppings, road tar, etc.), here are some recommendations:

Pressure washers

Use a pressure washer with rating that does not exceed 80 bar (1200 psi). 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.

Quick cleaning: products

Use a soft wet or damp microfiber cloth/sponge – some may state they are matt finish compatible.

Use matt finish cleaners – some alcohol-based cleaners (non-vinegar or ammonia) may be acceptable. Use recommended products and always follow the product manufacturer's instructions.

Quick cleaning: procedure

- Apply cleaner to the damp microfiber cloth/sponge and to the area to be cleaned.
- Soak the area briefly to allow the debris to soften.
- Remove residue with pressure washer (see recommendations), or, if pressure washing equipment is not available, gently wipe the area in a forward-backward motion.
- Rinse and repeat as needed.
- Dry area with a clean and damp microfiber soft cloth.

FULL CLEANING / PRESSURE WASHING AND DRYING



When your vehicle needs thorough cleaning, here are some recommendations:

Full cleaning: 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.
- Matt finish cleaner or gentle non-abrasive soaps. Always follow the manufacturer's dilution instructions and recommendations.
- Two large buckets with dirt separators.

Full cleaning: 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.
- To dry, use a clean soft damp microfiber cloth to remove the excess water.