



# DURAFIL

AUTO TECHNOLOGIES INC.

Part No.: MC-8100  
Low VOC Compliant

PDS Form:  
MC8100/LVCD AUS/0620\_V01

## MATTE-FIL MC-8100 MATTE URETHANE CLEARCOAT

**shake well before  
each use**



**MATTE-FIL MC-8100** is a High Performance, Low VOC, two component Matte Urethane Clearcoat system. This matte clearcoat is packaged as a matte clearcoat for your convenience! **MC-8100** will deliver a smooth, durable, long-lasting matte finish everytime! It can be used over both waterborne and solventborne basecoat colours, properly prepared OE clearcoats and may also be used over rigid plastics. This system has been formulated with premium ingredients and offers you the choice of air dry or force dry applications. The unique Low VOC formulation of the **MC-8100** is ideal for all your matte finishes. For small repair surfaces, when speed is what you need, we recommend the **H-8101** Fast Hardener with the **R-121/R-121.5 FAST-FIL** Fast Reducer. For overall repairs we recommend using the **H-8103 Slow Hardener** along with the **R-123/R-123.5 SLOW-FIL** Slow Reducer. **MC-8100** should be your choice of a matte clearcoat for all your specialized matte finishes. It will always provide that nice, smooth, matte finish you require. We offer a range of fast to slow dry hardeners, **H-8101**, **H-8102** and **H-8103** to meet all your speed-of-dry requirements. Select the appropriate speed of dry **Hardener** and **Reducer** to extract the optimum performance properties of the **MC-8100 MATTE-FIL** Matte Urethane Clearcoat system.

**Mix Ratio:** 4 : 1 : 1

**Required Catalyst:** H-8101/H-8102 or H-8103  
MATTE-FIL FAST, MEDIUM OR SLOW  
HARDENER

**Reducer:** R-121/R-121.5, R-122/R-122.5 or  
R-123/R-123.5 FAST-FIL, MEDIUM-FIL or  
SLOW REDUCER

Part No.	Product	Units	Units/ Case
MC-8100	MATTE-FIL Matte Urethane Clearcoat	3.78 L/1 US Gallon	4
H-8101	MATTE-FIL Fast Hardener	946 ml/1 US Quart	8
H-8102	MATTE-FIL Medium Hardener	946 ml/1 US Quart	8
H-8103	MATTE-FIL Slow Dry Hardener	946 ml/1 US Quart	8
R-121	FAST-FIL Fast Reducer	3.78 L/1 US Gallon	4
R-121.5	FAST-FIL Fast Reducer	18.9 L/5 US Gallons	Ea.
R-122	MEDIUM-FIL Medium Reducer	3.78 L/1 US Gallon	4
R-122.5	MEDIUM-FIL Medium Reducer	18.9 L/5 US Gallons	Ea.
R-123	SLOW-FIL Slow Reducer	3.78 L/1 US Gallon	4
R-123.5	SLOW-FIL Slow Reducer	18.9 L/5 US Gallons	Ea.



Refer to Product Data Sheet (PDS)  
MC-8100 for more information

## FEATURES

Low VOC System  
Easy-To-Use System  
Excellent Application Properties  
Formulated to be Applied over  
Waterborne and Solventborne  
Basecoat Colours

Rich, Durable Matte Finish  
Excellent Flow & Levelling Properties  
Formulated For Small And Overall Repairs  
Excellent Resistance to Weathering & Yellowing

# MATTE-FIL MC-8100

## MATTE URETHANE CLEARCOAT

**MATTE-FIL MC-8100** is a High Performance, Low VOC, two component Matte Urethane Clearcoat system. This matte clearcoat is packaged as a matte clearcoat for your convenience! **MC-8100** will deliver a smooth, durable, long-lasting matte finish everytime! It can be used over both waterborne and solventborne basecoat colours, properly prepared OE clearcoats and may also be used over rigid plastics. Looking for a high performance matte urethane clearcoat that will leave behind a durable, smooth, matte finish everytime? Select the appropriate speed of dry **Hardener** and **Reducer** to extract the optimum performance properties of the **MC-8100 MATTE-FIL** Matte Urethane Clearcoat system.

**PACKAGING:** 3.78 L / 1 US GALLON PER CAN 4 CANS PER CASE

MATERIALS:	CLEARCOAT	MC-8100	MATTE-FIL URETHANE CLEARCOAT
	<b>HARDENER</b>	<b>H-8101</b> <b>H-8102</b> <b>H-8103</b>	MATTE-FIL FAST HARDENER or MATTE-FIL MEDIUM HARDENER or MATTE-FIL SLOW HARDENER
	<b>REDUCER</b>	<b>R-121 / R-121.5</b> <b>R-122 / R-122.5</b> <b>R-123 / R-123.5</b>	FAST-FIL FAST REDUCER or MEDIUM-FIL MEDIUM REDUCER or SLOW-FIL SLOW REDUCER

### SURFACE PREPARATION:



Prepare a clean surface free of dirt, oil, wax, rust and other contaminants. Properly prepare and clean all surfaces to be refinished consistent with good painting practices. Ensure the substrate is thoroughly cleaned and dried prior to application work. The use of a tack cloth is also highly recommended

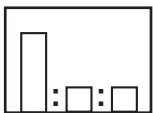
**Note:** Care should be taken to avoid dirt/dust inclusion at all stages. Rectification of dirt inclusion in matte clearcoats is NOT possible after the final coat application.

### PROTECTION:



Use only in a well ventilated area. Always wear the appropriate safety equipment and protective clothing. Consult with safety equipment supplier to ensure the proper safety equipment and protective clothing are being used.

### MIX RATIO:



4 : 1 : 1

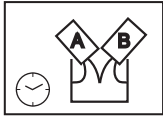
4 Parts **MC-8100** MATTE-FIL Matte Urethane Clearcoat  
 1 Part **H-8101, H-8102 or H-8103** MATTE-FIL Fast, Medium or Slow Hardener  
 1 Part **R-121/R-121.5, R-122/R-122.5 or R-123/R-123.5** FAST-FIL, MEDIUM-FIL or SLOW-FIL Reducer



Stir mixture thoroughly and strain.  
 Let mixture stand for 5 minutes before using.



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**POT LIFE:**

1 1/2 - 2 Hours @ 21° C / 70° F

**APPLICATION PROCESS:**

Care should be taken to avoid dirt/dust inclusion at all stages. Rectification of dirt inclusion in matte clearcoats is NOT possible after the final coat application. Matte clearcoats cannot be buffed! Polishing reduces the matte finish and make it glossy.

In the event that minor dirt inclusions are present, apply a heavy coat of **MC-8100** to bury the dirt/dust.

In the event that a few dust/dirt inclusions appear, remove them by hand only. To remove dirt/dust inclusions from the final finish, allow the repair area to fully dry. Remove dirt imperfections from the affected area and final sand the **entire panel** with P800 - P1000 grit sandpaper. Thoroughly clean and tack the surface. Apply an additional coat of **MC-8100**.

**SPRAY PRESSURE:**

**Conventional:** 1.2 mm - 1.3 mm / 25 - 30 psi at the gun

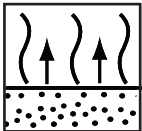
**HVLP:** 1.2 mm - 1.3 mm / 6 - 8 psi at the air cap

*\* Please refer to spray gun manufacturers' recommendations for proper spray pressure.*

**APPLICATION:**

Basecoat must be completely dry before applying **MC-8100**. Matte clearcoat can be used for complete panel refinishing only!

Using 25 - 30 psi apply 2 - 3 wet coats of the **MC-8100** mixture until a desired film build of 2.0 - 2.5 mils (dry) is achieved. Wet-on-wet application is recommended.

**FLASH TIME:**

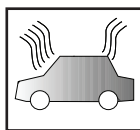
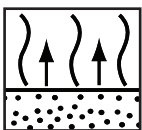
5 - 10 Minutes\*

**For 1 - 2 panel repairs:**

Allow a 5 - 10 minute flash time between coats @ 21° C / 70° F.

**For larger repair areas or completes:**

No flash time between coats is required.

**BAKING:**

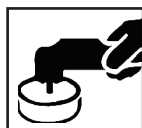
No Baking

Baking is NOT recommended for matte clearcoats and the **MC-8100**. Air dry is highly recommended only.



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## POLISHING:



Polishing of matte clearcoats is NOT recommended.

In the event that a few dust/dirt inclusions appear, remove them by hand only. Refer to Application Process on previous page for more information.

## TECHNICAL INFORMATION:

<b>Force Dry at 49°C/ 120°F:</b>	Baking Not Recommended
<b>Air Dry at 21°C/ 70°F:</b>	12 Hours / Overnight
<b>Appearance:</b>	Opaque Liquid
<b>Weight Per Gallon:</b>	3.90 kg / 8.60 lbs (at S.G. 1.032)
<b>% Solids by Weight:</b> (MC-8100 Only)	43 ± 2
<b>% Solids By Weight, RTS:</b> (Ready-To-Spray)	45 ± 2
<b>Pot Life:</b>	1 1/2 - 2 Hours @ 21° C / 70° F
<b>Mix Ratio By Volume:</b>	4 : 1 : 1
<b>Coats To Apply:</b>	2 - 3

## SAFETY & HANDLING:

**Important:** For Industrial Use Only by trained professionals using proper safety equipment and protective clothing. Prior to using be sure to read and understand the warnings of this product and all products it may require, since the mixture will have the hazards of all its components. Observe all precautions for all components. Use only with adequate ventilation and wear the appropriate safety equipment and protective clothing. Refer to Safety Data Sheet (SDS) for more and current information regarding this product and handling instructions.

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