

MONO-GLASS™ MC 4250

GLASS SHIELD
HIGH PERFORMANCE COATINGS



www.glass-shield.com
1-800-361-6652

MONO-GLASS™ MC 4250

POLYURETHANE
MOISTURE CURED
CLEAR / LOW VOC / CHEMICAL RESISTANT



*Conditions may apply; refer to the "Definitions and regulations" or visit our website at : www.Glass-Shield.com/VOC

www.glass-shield.com
1-800-361-6652

PRODUCT FEATURES

- Low VOC (245 g/l)
- Outstanding gloss retention when exposed to damaging U.V. rays
- Excellent impact resistant topcoat
- Remarkable chemical and solvent resistant topcoat
- Excellent adhesion and hardness
- Anti-graffiti properties
- Ultimate protection when used as a finishing coat over Glass Shield epoxies, moisture cure polyurethane primers or polyurethane topcoats
- Can be applied and cured at temperatures below freezing (-4C)
- Can be applied in damp and humid conditions
- Easy to apply with any traditional painting equipment

SUGGESTED USE

- Interior lining of salt spreader boxes or other similar vehicules
- Tintable topcoat for concrete mixers to protect them from frequent acid washdowns
- Interior lining of steel tanks
- Anti-flowling coating for nautical use
- Automotive applications as per articles 12 and 13 (reference to SOR/2009-197 official document) of the “Definitions and regulations” section of this document.
- Architectural applications as per articles 18, 19 and 40 (reference to SOR/2009-264 official document) of the “Definitions and regulations” section of this document.

MULTIPLE APPLICATIONS TABLE



TOP COAT CLEAR FINISHES

- GLASS-GUARD 2820 SERIE

TOP COAT COLOR FINISHES

- GLASS-GUARD 2800 SERIE
- GLASS-GUARD 2850 SEMI-GLOSS SERIES

SURFACER AND BUILDER PRIMERS

- EPOXY 1400, 1500 AND 1700 SERIES
- PRIME-SHIELD MC 4390
- VINYL-SHIELD 7342

SUBSTRATE PREPARATION PRODUCTS

- GS 9020S
- A.G.A. 2000
- GS 202

Looking for the perfect solution to your painting project? Call us at 1-800-361-6652

TECHNICAL DATA

Coating Type	Aromatic polyurethane resins one compoment
Colour	Clear
Gloss (ASTM D523)	90°+
Packaging	Part A @ 2.84L Part B @ .946L
Shelf Life	1 year
Flashpoint (ASTM D93)	26° C (79° F)
Mixing Ratio	3:1
Induction Time	None
Pot Life	4-6 hours
Volatile Organic Compound (VOC)	2 lbs / US gal (245 g/l)
Solids (ASTM D1644)	By weight: 53% +/- 2% By volume: 46% +/- 2%
Recommended Film Thickness	50 Microns dry (2.0 mils dry)
Theoretical Coverage	18 m ² / L at 25 microns dry 740 Pi² / Gal US at 1 mil +/- 2%
Application Method	Brush, roller, conventional airspray, airless and electrostatic
Temperature Resitance	100°C (212°F) in service
Thinner	Not recommended
Accelerator	None

DEFINITIONS AND REGULATIONS

IMPORTANT NOTICE : Canadian VOC regulations do not apply in the same way for automotive applications as for architectural applications.



The permissible VOC contents in grams per liter (g/l) vary considerably according to the types of applications as well as the various forms of activities. For example, the application of coatings is governed by the two regulations listed below, everywhere in Canada, except in manufacturing, marine, railway or military. To easily identify the recommended and VOC compliant Glass Shield products, please visit www.Glass-Shield.com/COV. In this section

you will find two tables showing the maximum VOC content permitted under the Automotive Application Regulations (SOR/2009-197) and the Architectural Applications Regulations (SOR/2009-264). We have designed these interactive and informative tools to help you easily identify the Glass Shield products that are specifically recommended for each book and are fully compliant with applicable standards.


For any additional information about a particular application, contact the technical department at 1-800-361-6652 or contact@glass-shield.com from Monday to Friday between 8:00 and 4:30PM.

APPLICATION

MONO-GLASS MC 4250 can be applied by brush, roller, air spray. For all air spray and airless application, please refer to the equipment manufacturer for guidance in achieving proper viscosity.

Do not apply MONO-GLASS MC 4250 on wet surfaces or in high humidity conditions since condensation could form on the substrate before it has time to harden. Minimum temperature of 50°F (10°C) for the application. High temperatures or humidity level will cause a shorter cure time.

PRESSURE




40 to 65lbs/ 10lbs at the gun
Conventional JTI

DRY FILM THICKNESS



2.0 to 3.0 mils
1 to 2 coats

INTERCOAT



aprox. 20 minutes

SURFACE PREPARATION

Prior to the application of MONO-GLASS MC 4250, make sure that the substrate is clean, dry, free of dirt, dust, salt deposit, oil, grease and other contaminants in order to ensure optimum adhesion. Apply over appropriate undercoat. In doubt, contact technical services at 1-800-361-6652 for proper guidance in preparing substrate.

PACKAGING, HANDLING & STORAGE

Shipping Weight (approximate)	1 gallon: 12 lbs / 5.5kg
Storage Indoors	10° - 35° C / 50° - 95° F



MIXING AND THINNING

MONO-GLASS MC 4250 is a two component moisture cured primer; mix parts A and B well in a 3: 1 ratio. It is important to mix the primer well, either manually or mechanically, to ensure a good dispersion of the pigmentation; otherwise the performance of the product could be affected. Pot life of the product is 6 hours at 25°C (77°F). Higher temperatures will shorten the pot life and colder temperatures will have the reversed effect.

Dilution with a thinner is not recommended.

POT LIFE



4 to 6 hrs

CURING SCHEDULE

Curing times are based on a dry film thickness of 2.0-3.0 mils (50-75 microns). Let the film flash off 2 hours after the final coat. Excessive film thickness, insufficient air movement or a very cold environment will generate longer curing times and can affect the performances of the product. Excessive humidity levels or condensation on the substrate during the dry time might interfere with the curing process leading to a discoloration and poor film quality. In that case the paint job will have to be redone. Maximum recoat time is 24 hours without any additional surface preparation. Contact technical services for recommendations and test results. If the maximum recoat time has been exceeded, the surface must be sanded prior to the application of additional coats. MONO-GLASS MC 4250 applied below 4°C (40°F) may soften for several hours. This is a normal condition and will not influence performance. Contact technical services for recommendations and test results.

Intercoat	20 minutes (varies depending on humidity level)
Dry to Touch	4-6 hours
To Recoat	8-10 hours (sanding required after 24hrs)
Hard	10 hours
Fully Cured	7 days

AIRLESS & AIR SPRAY

Spray Gun	HET	K3 RP
Fluid Tip	1.4-1.6 ff	1.4-1.6
Air Cap	#410 / 414	
Fluid Line	3/8"	3/8"
Pressure Pot	15 - 25 psi	40 psi
Atomizing Air	40 - 65 psi	36 psi

DISCLAIMER: All information is given in good faith. Since conditions of use are beyond the manufacturer's controls, all information contained herein is without warranty, implied or otherwise. All technical data and specifications are subject to change. Please consult with your Glass Shield representative for more detailed coating recommendations.

Revised in October 2021

MONO-GLASS™

MC-4250

MOISTURE CURED