



MPC200

Acrylic Polyurethane Ultra Low VOC Matte Clear

MAP-LVC238

Matthews Acrylic Polyurethane Ultra Low VOC (MAP-LV®) MAP-LVC238 Matte Clear is produced from the technology that makes our colors unparalleled in their resistance to the elements.

MAP-LVC238 Ultra Low VOC Matte Clear is formulated with a UV screening package that ensures protection of the color and substrate underneath.

MAP-LVC238 Ultra Low VOC Matte Clear is designed for topcoat applications to protect color coated signage components, vinyl graphics and to highlight architectural metals.



Features:

Benefits:

Durable yet flexible film	Impact and mar resistant
Matte-in-the-can.	No additional flattening agent needed, Consistent gloss and finish, Less time to mix
Air-dry or force-dry capable	Fits most shop conditions
Excellent UV resistance	Excellent color and gloss retention; Extended life cycle; Reduced maintenance costs
2K Acrylic polyurethane.....	Resistance to weathering; Resistance to chalking, Long-term durability
Ultra low VOC technology	Environmentally friendly; Complies with most stringent VOC requirements; High solids
Brush and roll capability.....	For use in areas where air spraying is prohibited

Compatible Surfaces:

MAP-LVC238 Acrylic Polyurethane Ultra Low VOC Matte Clear may be applied over properly prepared:

MAP®
Satin MAP®
Satin VOC MAP®
MAP-LVG Acrylic Polyurethane
MAP-LVS Acrylic Polyurethane
74 777SP Tie Bond Adhesive
274 777SP Tie Bond Adhesive
274 793SP Spray Bond Adhesive

Associated Products:

Catalyst

MAP-LVX270 Catalyst

Reducer

MAP-LVRS01 Cool Temp. Spray Reducer
MAP-LVRS02 Warm Temp. Spray Reducer w/ Extender
MAP-LVRS03 Hot Temperature Spray Reducer w/ Extender 80° & Above
MAP-LVRB51 Brush and Roll Reducer

Accelerator

287 437SP HS Accelerator
MAP-LVA117 Ultra Low VOC Accelerator
47117SP MAP Accelerator
287 484SP HS Turbo Enhancer
SM166A Tape-It Accelerator

MAP-LVC238

Directions for Use

Surface Preparation:

Substrate should be prepared according to Matthews Substrate Preparation Guide prior to topcoat application.

Mix Ratio:



Mix Ratio for Spraying (by volume)

MAP-LVC238 LVX270 LVRS0x* with Accelerator**

3 parts 1 part 1 part Up to 1oz/RTS quart

***Choose MAP reducer**

- MAP-LVRS01 Cool Temp. Spray Reducer
- MAP-LVRS02 Warm Temp. Spray Reducer with Extender
- MAP-LVRS03 Hot Temperature Spray Reducer with Extender 80° & Above
- NOTE: Larger jobs may require a hotter temperature reducer.

****Caution: use of accelerator with LVRS01 is Not Recommended as it will drastically shorten pot life.**

- For Brushing and Rolling, refer to Technical Data Sheet MPC193.
- All components should be mixed thoroughly before using
- Strain material after mixing



Pot Life: Pot-life is the amount of time before spray viscosity doubles. These are estimates based on lab results at 50% relative humidity, 70°F/21°C—results will vary based on application conditions, reducer selection, and accelerator choice.

Note: mix no more product than can be used within time limits listed below:

Application Method	Reducer	Accelerator*	Max load of accelerator per RTS qt	Pot-Life
Spraying	MAP-LVRS01	Not Recommended		4 hours
	MAP-LVRS02 or MAP-LVRS03	287 437SP	1.5 oz	1.5 hours
		MAP-LVA117	1 oz	1 hour
		47117SP	1 oz	1 hour
		287 484SP	½ oz – 1 oz	1 hour
		SM166A	¼ oz – 1 oz	30 minutes
Brush and Roll	LVRB51	Not Recommended		2 hours

*Times listed in the chart above are for a full load of accelerator.

Additives:



None required, but the following may be used for specific application or project needs:

- 287 112SP Medium Suede Additive
- 287 113SP Coarse Suede Additive

Spray Set Up:



Air Pressure: Conventional: 40 - 50 psi at the gun*
HVLP: 10 psi at the cap*

*** Refer to spray gun manufacturer recommendations for inlet pressure.**



Pressure Pot Fluid Delivery: 8 - 12 Fluid Ounces per Minute



Gun Set Up: Siphon Feed: 1.2 - 1.4 mm 0.047 - 0.055 fluid tip
HVLP: 1.2 - 1.4 mm 0.047 - 0.055 fluid tip
Pressure Pot: 1.0 - 1.2 mm 0.039 - 0.047 fluid tip

MAP-LVC238

Directions for Use

Application:



Apply:

Apply two full wet coats, allowing proper flash time* between coats.
Apply additional coats as necessary to achieve total dry film thickness.

*Flash times will vary dependent upon film thickness, temperature, solvent selection, spray gun set-up, application, etc.

Recommended
Film Thickness:

Wet Film Thickness (WFT)
Dry Film Thickness (DFT)

Per Coat
2 - 3 mils
1 mils

Total
4 - 6 mils
2 mils

Caution: All 2-component crosslinking slows significantly at temperatures below 60°F or 16°C. Never spray or subject freshly painted coatings to these conditions or loss of gloss, decreased durability and improper curing can occur.

Estimated Drying Times:



Air-Dry @ 50% Relative Humidity, 70°F/21°C
LVC238 (Mixed 3:1:1 with LVX270 and Reducer)

Reducer	Accelerator*	Dust Free	Set to Touch	Dry to Handle	Tape Time	Vinyl Application (2-3 mils)	Reflective Metallic Vinyl Application
MAP-LVRS01	Not recommended	10-15 minutes	25-35 minutes	45-60 minutes	1-2 hours	8-11 hours	16-22 hours
MAP-LVRS02 or MAP-LVRS03	287 437SP	10-15 minutes	15-20 minutes	25-45 minutes	1-1½ hours	7-10 hours	12-16 hours
	MAP-LVA117	10-15 minutes	15-20 minutes	25-45 minutes	1-1½ hours	7-10 hours	12-16 hours
	47117SP	10-15 minutes	15-20 minutes	25-45 minutes	1-1½ hours	7-10 hours	12-16 hours
	287 484SP	10-15 minutes	15-20 minutes	25-40 minutes	45-60 minutes	5-7 hours	9-14 hours
	SM166A	10-15 minutes	15-20 minutes	25-35 minutes	45-60 minutes	4-7 hours	8-14 hours

*Times listed in the chart above are for a full load of accelerator.

Recoating: Paint films cured over 24 hours should be cleaned, lightly dry scuff sanded with 320 – 400g by hand/machine or wet sanded with 600g, then cleaned again before recoating.

Force Dry: Allow 30 minute purge before baking to prevent solvent popping. Bake for 40 minutes at 140°.

Equipment Cleaning:

Clean equipment promptly with any low VOC all-purpose cleaning solvent.
Acetone should be used for cleanup in environmentally regulated areas.

Note: Do not leave mixed material in equipment.

MAP-LVC238

**Acrylic Polyurethane
Ultra Low VOC Matte Clear**

Technical Data:**VOC Information**

VOC Actual RTS	0.18 – 1.91 lbs/gal
VOC Actual RTS	22 – 229 g/L
VOC Regulatory (less water less exempt) RTS	0.38 – 2.34 lbs/gal
VOC Regulatory (less water less exempt) RTS	46 – 280 g/L

For complete VOC information, visit MatthewsPaint.com > Quick Links > VOC Data

Performance Characteristics

Volume solids (RTS)	45.28% - 54.88%
Theoretical Coverage (1 mil @ 100% transfer efficiency)	727 - 761 sq.ft./RTS gal
Application Conditions - Temperature	60°F (16°C) Minimum 100°F (38°C) Maximum
Application Conditions - Relative Humidity	85% maximum 5° above dew point

Important:

The contents of this package may have to be blended with other components before the product can be used. Before opening the packages, be sure you understand the warning messages on the labels of all components, since the mixture will have the hazards of all its parts. Improper spray technique may result in a hazardous condition. Follow spray equipment manufacturer's instructions to prevent personal injury or fire. Follow directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

See Safety Data Sheet and Labels for additional safety information and handling instructions.

EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION - US (412) 434-4515; CANADA (514) 645-1320; Mexico 01-800-00-21-400
Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the general public. Products mentioned may be hazardous and should only be used according to directions, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to Matthews Paint. Procedures for applications mentioned are suggestions only and are not to be construed as representations or warranties as to performance, results, or fitness for any intended use, nor does Matthews Paint warrant freedom from patent infringement in the use of any formula or process set forth herein.
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760 Pittsburgh Drive
Delaware, OH 43015
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