



Acrylic Polyurethane Ultra Low VOC Gloss Clear

MAP-LVC208/01

Matthews Acrylic Polyurethane Ultra Low VOC MAP-LVC208/01 Gloss Clear is produced from the technology that makes our colors unparalleled in their resistance to the elements.

MAP-LVC208/01 Ultra Low VOC Gloss Clear is formulated with UV agents that ensure excellent gloss retention and protection of the color and substrate underneath.

MAP-LVC208/01 Ultra Low VOC Gloss Clear is designed to protect color coated signage components, vinyl graphics and to highlight architectural metals.



Features:

Benefits:

- Durable yet flexible filmImpact and mar resistant
- Durable gloss finishAdds depth and appearance
- Air-dry or force-dry capableFits most shop conditions
- Excellent UV resistanceExcellent 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 technologyEnvironmentally 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-LVC208/01 Acrylic Polyurethane Ultra Low VOC Gloss Clear may be applied over properly prepared:

- MAP®
- Satin MAP®
- Satin VOC MAP®
- MAP-LVG Acrylic Polyurethane
- MAP-LVS Acrylic Polyurethane
- 74777SP/01 Tie Bond Adhesive
- 274777SP/01 Tie Bond Adhesive
- 274793SP/01 Spray Bond Adhesive

Associated Products:

| Catalyst | Reducer | Accelerator |
|-------------------------|---|---|
| MAP-LVX270/01* Catalyst | MAP-LVRS01/01* Cool Temp. Spray Reducer | 287437SP/08 HS Accelerator |
| *Also available in /04 | MAP-LVRS02/01 Warm Temp. Spray Reducer w/ Extender | MAP-LVA117/08 Ultra Low VOC Accelerator |
| | MAP-LVRS03/01 Hot Temperature Spray Reducer w/ Extender 80° & Above | 47117SP/04 MAP Accelerator |
| | MAP-LVRB51/01* Brush and Roll Reducer | |

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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-LVC208/01 LVX270/01* LVRS0x** with Accelerator***

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

- MAP-LVRS01/01* Cool Temp. Spray Reducer
- MAP-LVRS02/01 Warm Temp. Spray Reducer with Extender
- MAP-LVRS03/01 Hot Temperature Spray Reducer with Extender 80° & Above
- NOTE: Larger jobs may require a hotter temperature reducer.
- For Brushing and Rolling, refer to Technical Data Sheet MPC193.
- All components should be mixed thoroughly before using
- Strain material after mixing

*Also available in /04

**Choose MAP reducer

***Caution: use of accelerator with LVRS01/01* is Not Recommended as it will drastically shorten pot life.



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-LVRS01/01* | Accelerator is Not Recommended when using MAP-LVRS01/01* reducer | | 1 hour |
| | MAP-LVRS02/01 or MAP-LVRS03/01 | 287437SP/08 | 1/2 oz | 1.5 hours |
| | | MAP-LVA117/08 | 1/2 oz | 1 hour |
| | | 47117SP/04 | 1/2 oz | 1 hour |
| Brush and Roll | LVRB51/01* | Accelerator is Not Recommended when brushing or rolling | | 1 hour |

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

*Also available in /04

Additives:



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

- 287112SP/04 Medium Suede Additive
- 287113SP/04 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

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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) | Per Coat | Total |
|--|--------------------------|------------|------------|
| | 2 - 3 mils | 2 - 3 mils | 4 - 6 mils |
| | Dry Film Thickness (DFT) | 1 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
LVC208/01 (Mixed 3:1:1 with LVX270/01* and Reducer)

| Reducer | Accelerator* | Dust Free | Set to Touch | Dry to Handle | Tape Time | Vinyl Application (2-3 mils) | Reflective Metallic Vinyl Application |
|--------------------------------------|-----------------|---------------|---------------|---------------|------------|------------------------------|---------------------------------------|
| MAP-LVRS01/01* | Not recommended | 10-15 minutes | 25-35 minutes | 45-60 minutes | 1-2 hours | 8-11 hours | 16-22 hours |
| MAP-LVRS02/01 or MAP-LVRS03/01 | 287437SP/08 | 10-15 minutes | 15-20 minutes | 25-40 minutes | 1-1½ hours | 7-10 hours | 12-16 hours |
| | MAP-LVA117/08 | 10-15 minutes | 15-20 minutes | 25-40 minutes | 1-1½ hours | 7-10 hours | 12-16 hours |
| | 47117SP/04 | 10-15 minutes | 15-20 minutes | 25-40 minutes | 1-1½ hours | 7-10 hours | 12-16 hours |

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

*Also available in /04

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.

Technical Data:

VOC Information

| | |
|---|---------------------|
| VOC Actual RTS | 0.18 – 1.85 lbs/gal |
| VOC Actual RTS | 22 – 221 g/L |
| VOC Regulatory (less water less exempt) RTS | 0.36 – 2.30 lbs/gal |
| VOC Regulatory (less water less exempt) RTS | 43 – 276 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 |

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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. If you require technical assistance, please call us toll-free 800/323-6593.



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