



MPC191

**Acrylic Polyurethane Ultra Low VOC Satin Clear**

# MAP-LVC228

Matthews Acrylic Polyurethane Ultra Low VOC (MAP-LV®) MAP-LVC228 Satin Clear is produced from the technology that makes our colors unparalleled in their resistance to the elements.

MAP-LVC228 Ultra Low VOC Satin Clear is formulated with a UV screening package that ensures protection of the color and substrate underneath.

MAP-LVC228 Ultra Low VOC Satin 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
- Satin-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-LVC228 Acrylic Polyurethane Ultra Low VOC Satin 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-LVC228

## 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:

	Per Coat	Total
Wet Film Thickness (WFT)	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  
LVC228 (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.**

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**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](http://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.

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

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EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION - US (412) 434-4515; CANADA (514) 645-1320; Mexico 01-800-00-21-400

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