



MPC181

**VOC Gloss Clear**

# 282 208SP

VOC Gloss Clear 282 208SP is a two-component, high gloss 2.8 or 3.5 VOC compliant, acrylic polyurethane clear, which is produced from the same technology that makes our colors unparalleled in their resistance to the elements.

282 208SP VOC Gloss Clear is formulated with a UV screening package that ensures protection of the color and substrate underneath.

282 208SP VOC Gloss Clear is designed for topcoat applications to protect color coated signage components and vinyl graphics or to highlight architectural metals.



**Features:**

**Benefits:**

- Durable gloss finish ..... Adds depth and appearance
- 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
- Low VOC technology ..... Environmentally friendly; Complies with VOC requirements; High solids

**Compatible Surfaces:**

**282 208SP VOC Gloss Clear may be applied over properly prepared:**

- MAP Acrylic Polyurethane
- Satin MAP Acrylic Polyurethane
- Low VOC Satin Acrylic Polyurethane
- 74 777SP Tie Bond
- 274 777SP Low VOC Tie Bond
- 274 793SP Low VOC Spray Bond

**Associated Products:**

**Catalyst**

283 800SP

**3.5 VOC Reducer**

- 6300SP Cool temperature, 60 - 75°F (16 - 24°C)
- 6301SP Warm temperature, 70 - 85°F (21 - 29°C)
- 6302SP Hot temperature, 80°F (27°C) & above

**2.8 VOC Reducer**

- 6370SP Cool temperature, 60 - 75°F (16 - 24°C)
- 6371SP Warm temperature, 70 - 85°F (21 - 29°C)
- 6372SP Hot temperature, 80°F (27°C) & above

**Accelerator**

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

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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)

282 208SP	283 800SP	Reducer*	with Accelerator
3 parts	1 part	1 part	Optional**

\*Choose VOC MAP reducer

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**2.8 VOC Reducer**

- 6370SP Cool temperature, 60 - 75°F (16 - 24°C)
- 6371SP Warm temperature, 70 - 85°F (21 - 29°C)
- 6372SP Hot temperature, 80°F (27°C) & above
- NOTE: Larger jobs may require a hotter temperature reducer.

\*\*Refer to MPC218 for optional accelerators and amounts.

- For Brushing and Rolling, refer to Technical Data Sheet MPC159.
- 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	Accelerator*	Max load of accelerator per RTS qt	Pot-Life
Spraying	Without Accelerator		8 hours
	287 437SP	1.5 oz	2 hours
	MAP-LVA117	.5 oz	45 min
	47117SP	1 oz	1 hour
	287 484SP	.5 oz	1 hour
Brush and Roll	Not Recommended		8 hours

\*Times listed in the chart above are for a full load of accelerator. Refer to MPC218 for optional accelerators and amounts.

**Additives:**



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

- 287 112SP Medium Suede Additive
- 287 113SP Suede Additive
- 74 103SP Low VOC Basecoat Converter
- 47 444SP Brush/Roller Additive
- 287 750SP Exempt Flattening Paste

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## Directions for Use

### 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

### Application:



Apply: Apply two full wet coats, allowing proper flash time\* between coats. Apply additional coats as necessary to achieve total dry film thickness and/or metallic control.

\*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
		3 - 4 mils	6 - 8 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  
 282 208SP (mixed 3:1:1 with catalyst and reducer)

Accelerator*	Dust Free	Set to Touch	Dry to Handle	Tape Time	Vinyl Application (2-3 mils)	Reflective Metallic Vinyl Application
Without Accelerator	15 minutes	30 min-1 hour	1.5-2 hours	16 hours	48 hours	96 hours
287 437SP	15 minutes	30-45 minutes	1-1.5 hours	1 hour	24 hours	48 hours
MAP-LVA117	15 minutes	30-45 minutes	1-1.5 hours	45 minutes	24 hours	48 hours
47117SP	15 minutes	30-45 minutes	45 min-1 hour	45 minutes	24 hours	48 hours
287 484SP	15 minutes	30-45 minutes	45 min-1 hour	2 hours	8 hours	24 hours

\*Times listed in the chart above are for a full load of accelerator. Refer to MPC218 for optional accelerators and amounts.

**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 lacquer thinner or equivalent cleaning solvent.

**Note: Do not leave mixed material in equipment.**

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## Technical Data:

### 3.5 VOC Information

VOC Actual RTS	2.72 - 2.81 lbs/gal
VOC Actual RTS	325 - 336 g/L
VOC Regulatory (less water less exempt) RTS	3.02 - 3.12 lbs/gal
VOC Regulatory (less water less exempt) RTS	361 - 373 g/L

**Important:** to maintain 3.5 VOC compliance when using accelerators, use no more than .5oz per RTS qt of the following accelerators: 287 437SP, MAP-LVA117, 47117SP, or 287484SP.

### 2.8 VOC Information

VOC Actual RTS	2.08 - 2.35 lbs/gal
VOC Actual RTS	249 - 281 g/L
VOC Regulatory (less water less exempt) RTS	2.6 - 2.9 lbs/gal
VOC Regulatory (less water less exempt) RTS	311 - 347 g/L

For complete VOC information, visit [MatthewsPaint.com](http://MatthewsPaint.com) > Quick Links > VOC Data

### Performance Characteristics

Volume solids (RTS)	47.92 - 50.09%
Theoretical Coverage (1 mil @ 100% transfer efficiency)	768 - 803 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  
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