



**VOC Satin Clear**

# 281228SP/01

VOC Satin Clear 281228SP/01 is a two-component, 2.8 or 3.5 VOC acrylic polyurethane with a natural satin finish. It is produced from the same technology that makes our colors unparalleled in their resistance to the elements.

281228SP/01 VOC Satin Clear is formulated with a UV screening package that ensures protection of the color and substrate underneath.

281228SP/01 VOC Satin Clear is designed for topcoat applications to protect color-coated signage components and vinyl graphics or to highlight architectural metals.



**Features:**

**Benefits:**

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
Brush and roll capability .....	For use in areas where air spraying is prohibited
Low VOC technology .....	Environmentally friendly; Complies with VOC requirements; High solids

**Compatible Surfaces:**

**281228SP/01 VOC Satin Clear may be applied over properly prepared:**

- MAP Acrylic Polyurethane
- Satin MAP Acrylic Polyurethane
- Low VOC Satin Acrylic Polyurethane
- 74777SP/01 Tie Bond
- 274777SP/01 Low VOC Tie Bond
- 274793SP/01 Low VOC Spray Bond

**Associated Products:**

**Catalyst**

283800SP/01

**3.5 VOC Reducer**

- 6300SP/01 Cool temperature, 60 - 75°F (16 - 24°C)
- 6301SP/01 Warm temperature, 70 - 85°F (21 - 29°C)
- 6302SP/01 Hot temperature, 80°F (27°C) & above

**2.8 VOC Reducer**

- 6370SP/01 Cool temperature, 60 - 75°F (16 - 24°C)
- 6371SP/01 Warm temperature, 70 - 85°F (21 - 29°C)
- 6372SP/01 Hot temperature, 80°F (27°C) & above

**Accelerator**

- 287437SP/08 HS Accelerator
- 47117SP/04 MAP Accelerator
- 287484SP/08 HS Turbo Enhancer
- MAP-LVA117/08 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)

281228SP/01	283800SP/01	Reducer*	with Accelerator
3 parts	1 part	1 part	Optional**

\*Choose VOC MAP reducer

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- 6371SP/01 Warm temperature, 70 - 85°F (21 - 29°C)
- 6372SP/01 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
	287437SP/08	1.5 oz	2 hours
	MAP-LVA117/08	.5 oz	45 min
	47117SP/04	1 oz	1 hour
	287484SP/08	.5 oz	1 hour
Brush and Roll	Accelerator is Not Recommended when brushing or rolling		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:

- 287112SP/04 Medium Suede Additive
- 287113SP/04 Suede Additive
- 287103SP/01 Low VOC Basecoat Converter
- 47444SP/04 Brush/Roller Additive\*
- 287750SP/01 Exempt Flattening Paste
- 47474SP/04 Flex Additive\*

\*47444SP/04 Brush/Roller Additive and 47474SP/04 Flex Additive can be used in areas with 3.5 VOC regulations

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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:		Per Coat	Total
Wet Film Thickness (WFT)		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  
281228SP/01 (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
287437SP/08	15 minutes	30-45 minutes	1-1.5 hours	1 hour	24 hours	48 hours
MAP-LVA117/08	15 minutes	30-45 minutes	1-1.5 hours	45 minutes	24 hours	48 hours
47117SP/04	15 minutes	30-45 minutes	45 min-1 hour	45 minutes	24 hours	48 hours
287484SP/08	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	2.63 - 2.73 lbs/gal
VOC Actual RTS	315 - 327 g/L
VOC Regulatory (less water less exempt) RTS	2.93 - 3.02 lbs/gal
VOC Regulatory (less water less exempt) RTS	351 - 361 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	2.0 - 2.27 lbs/gal
VOC Actual RTS	239 - 272 g/L
VOC Regulatory (less water less exempt) RTS	2.5 - 2.8 lbs/gal
VOC Regulatory (less water less exempt) RTS	299 - 335 g/L

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

### Performance Characteristics

Volume solids (RTS)	49.04 - 51.27%
Theoretical Coverage (1 mil @ 100% transfer efficiency)	786 - 822 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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