Acrylic Polyurethane SVOC Satin Clear

SV228SP/01

SV228SP/01 VOC Satin Clear 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.

SV228SP/01 is formulated with a UV screening package that ensures protection of the color and substrate underneath.

SV228SP/01 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

Compatible Surfaces:

SV228SP/01 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
283320SP/01* Satin VOC Catalyst
*Also available in /04

3.5 VOC Reducer
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
287484SP/08 HS Turbo Enhancer
MAP-LVA117/08 Ultra Low VOC Accelerator

SV228SP/01

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)

SV228SP/01	283320SP/01 or /04	Reducer*	with Accelerator
3 parts	1 part	1 part	Optional**

*Choose VOC MAP reducer

3.5 VOC Reducer

- 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
- 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-LVA117/04	.5 oz	45 min
	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.
*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
SV228SP/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-LVA117/04	15 minutes	30-45 minutes	1-1.5 hours	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	1.73 - 3.12 lbs/gal
VOC Actual RTS	207 - 373 g/L
VOC Regulatory (less water less exempt) RTS	2.95 - 3.52 lbs/gal
VOC Regulatory (less water less exempt) RTS	353 - 421 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	1.09 - 1.28 lbs/gal
VOC Actual RTS	130 - 153 g/L
VOC Regulatory (less water less exempt) RTS	2.24 - 2.8 lbs/gal
VOC Regulatory (less water less exempt) RTS	268 - 331 g/L

Important: to maintain 2.8 VOC compliance, use only MAP-LVA117 accelerator.

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

Performance Characteristics

Volume solids (RTS)	29% - 33%
Theoretical Coverage (1 mil @ 100% transfer efficiency)	470 - 542 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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