MPC180



VOC Satin Clear



VOC Satin Clear 281 228SP 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.

281 228SP VOC Satin Clear is formulated with a UV screening package that ensures protection of the color and substrate underneath.

281 228SP 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:

281 228SP VOC Satin 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	3.5 VOC Reducer	Accelerator
283 800SP	6300SP Cool temperature, 60 - 75°F (16 - 24°C)	287 437SP HS Accelerator
	6301SP Warm temperature, 70 - 85°F (21 - 29°C)	47117SP MAP Accelerator
	6302SP Hot temperature, 80°F (27°C) & above	287 484SP HS Turbo Enhancer
	2.8 VOC Reducer	MAP-LVA117 Ultra Low VOC Accelerator
	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	
	•	

281 228SP

Directions for Use

Surface Preparation:

Mix

Substrate should be prepared according to Matthews Substrate Preparation Guide prior to topcoat application.

Mix Ratio	for Spraying (by	volume)	
281 228S	283 800SP	Reducer*	with Accelerato
3 parts	1 part	1 part	Optional**
*Choose V	OC MAP reduc	er	
3.5 VOC	Reducer		
• 6300SP	Cool temperatur	re, 60 - 75°F (16 - 24°C)
• 6301SP	Warm temperatu	ıre, 70 - 85°F	(21 - 29°C)
• 6302SP	Hot temperature	e, 80°F (27°C)	& above
2.8 VOC	Reducer		
• 6370SP	Cool temperatur	e, 60 - 75°F (16 - 24°C)
	Warm temperatu		
	Hot temperature		
	-		er temperature re
		*	tors and amounts
	*		nical Data Sheet
	0	·	ughly before usin
	aterial after mixi		
Pot Life:	Pot-life is the amo	ount of time b	efore spray viscos



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
	Without A	8 hours	
Spraying	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 Reco	8 hours	

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

Additives:



- A B • 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

281 228SP

Directions for Use

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 I	Delivery:	8 - 12 Fluid Ounces per	Fluid Ounces per Minute	
*	Gun Set Up:	Siphon Feed: HVLP: Pressure Pot:	1.2 - 1.4 mm 0.047 - 0	.055 fluid tip	
T	Apply:	Apply additional coat and/or metallic contr *Flash times will vary	otal dry film thickness		
	Recommended Film Thickness:		,	Total 6 - 8 mils 2 mils	
		Image: Constraint of the second se	Image: Wight of the system	WILP: 10 psi at the cap* * Refer to spray gun manufacturer recommendation * Refer to spray gun manufacturer recommendation Pressure Pot Fluid Delivery: 8 - 12 Fluid Ounces per Gun Set Up: Siphon Feed: 1.2 - 1.4 mm 0.047 - 0 HVLP: 1.2 - 1.4 mm 0.047 - 0 Pressure Pot: 1.0 - 1.2 mm 0.039 - 0 Pressure Pot: 1.0 - 1.2 mm 0.039 - 0 Recommended Per Coat	

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 281 228SP (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.

281 228SP

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 > 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			
Immentants T1		1 1 1 1 0 0 1 1			

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.



The World's Finest Coating For Architectural Signage

760 Pittsburgh Drive Delaware, OH 43015 Toll Free: 800/323-6593 Toll Free FAX: 800/947-0377