



**Matthews Acrylic Polyurethane**

# Satin MAP<sup>®</sup>

Matthews Acrylic Polyurethane Satin MAP incorporates the same quality performance of MAP<sup>®</sup> but in a uniform satin finish. Satin MAP produces a “Satin-in-the Can” gloss level that is compliant with the Americans with Disabilities Act (ADA). Ideal substrates include signage components, graphic arts and architectural metals. Satin MAP is also suitable for use on metal, wood and various plastics. Satin MAP is available in standard colors plus an unlimited selection of custom colors.



**Features:**

- Satin-in-the-Can
- Acrylic Polyurethane

**Benefits:**

- No flattening agent needed
- Uniform color and finish
- Weather & Chemical Resistant
- Long-term Durability

**Compatible Surfaces:**

**Satin MAP<sup>®</sup> Acrylic Polyurethane may be applied over:**

6001SP Polyester Primer Surfacer	74350SP/74351SP 3.5 Non-Chromate Primer	274 777SP Low VOC Tie Bond
6007SP/6207SP 3.5 Gray Epoxy Primer	74 734SP/74 735SP Metal Pretreatment	274 793SP Low VOC Spray Bond
274 228SP E Prime White 2.8	74 760SP/74 766SP PT Filler	
274 685SP/274 686SP U Prime	74 770SP/74 766SP HBPT	
274 808SP/274 909SP Black Epoxy Primer	74 780SP/74 781SP HBEF	
274 908SP/274 909SP White Epoxy Primer	74 777SP Tie Bond	

**Required Products:**

**Catalyst**

43 270SP Universal Catalyst
43 621SP Brushing Catalyst (For brush or roller application)
43 999SP Slow Catalyst (For hot weather or bake application)

**Reducers (Conventional)**

6379SP	Cool temperature, 60 - 75°F (16 - 24°C)
45 280SP	Warm temperature, 70 - 80°F (21 - 27°C)
45 290SP	Very warm temperature, 75 - 85° (24 - 29°C)
6396SP	Hot temperature, 80°F (27°C) & above
45 251SP	Retarder

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## Directions for Use

### Surface Preparation:

Substrate should be prepared according to undercoat instructions prior to topcoat application.

### Mix Ratio:



Mix Ratios (by volume)

Satin MAP	MAP Catalyst*	Map Reducer**
3 parts	1 part	1 part

\* Catalysts that can be used in any MAP topcoats at a 3:1:1 ratio are:

43 270SP Universal Catalyst

43 999SP Slow Catalyst (For hot weather or bake application)

**NOTE:** If brushing or rolling is required, 43 621SP Brushing Catalyst is recommended at a ratio of six (6) parts paint to one (1) part catalyst to two (2) parts B/R Additive 47 444SP @ (6:1:2) mix ratio.

\*\* Choose MAP reducer best suited for shop conditions



- SATIN MAP color, catalyst and reducer should be mixed in thoroughly before using.



- Mix no more material than will be used in an 8-hour period.

- Spray viscosity should be 18 - 22 seconds (#2 Zahn cup).



- Strain material following mixing.

- Pot life of mixture is 8 hours at 70°F (21°C), or 2 hours w/ 287 437SP accelerator.

### Reducers:

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### Additives:



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

287 437SP Accelerator	47 888SP Flattening Paste
287 112SP Medium Suede Additive	74 102SP MAP Converter
287 113SP Suede Additive	74 103SP Slow Converter
47 333SP Anti-Crater Solution	SOA 950SP Gloss Modifier
47 444SP Brush/Roller Additive	SOA 955SP Matting Clear
47 474SP Flex Additive	(Note: This is a flattening paste and cannot be used as a topcoat)

### Spray Set Up:



Air Pressure:	Conventional:	40 - 50 psi at the gun
	HVLP:	10 psi at the cap
	Pot Pressure:	10 - 12 psi

Gun Set Up:	Siphon Feed:	1.4 mm 0.055 fluid tip
	HVLP:	1.4 mm 0.055 fluid tip
	Pressure Pot:	1.2 mm 0.046 fluid tip

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## Directions for Use

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### Application:



Apply: 1 full wet coat  
Flash 5 - 10 minutes between coats  
Follow with a second full wet coat  
Apply additional coats as necessary to achieve total dry film thickness.

#### Recommended:

Dry Film Thickness: 2 mils minimum (DFT)

**Note:** Finish with a medium to light final coat for metallic control.

**Caution:** All 2 component cross-linking stops or slows significantly at temperatures below 60°F or 16°C. Never spray or subject freshly painted coatings to these conditions or loss of gloss, poor water and chemical resistance, decreased durability and improper curing will occur.

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### Factory Pack Colors:

6425SP Satin Hi-Hide White

41 335SP Anodic Black

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### Drying Times:



<b>Air Dry</b> (50% relative humidity, 70°F / 21°C)	<b>Without Accelerator</b>	<b>With 287 437SP Accelerator</b>
Dust Free	15 minutes	15 minutes
Tack Free	2 hours	1 hour
Tape Time	16 hours	2 - 4 hours
Dry to Handle	24 hours	4 hours
Dry to Clearcoat	30 min.	15 minutes

#### **Bake Dry** with 43 999SP Slow Catalyst

Allow 10 - 15 minutes flash before baking to prevent solvent popping

60 minutes @ 150°F / 66°C

30 minutes @ 200°F / 93°C

10 minutes @ 300°F / 149°C

Temperatures over 350°F / 177°C  
should be avoided.

**Note:** Paint films cured over 24 hours should be lightly dry scuff sanded with 320 - 400 grit by hand/machine or 600 wet grit sanded before recoating to assure proper adhesion.

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### Equipment Cleaning:

Clean equipment promptly with an all-purpose clean up solvent or any compliant general cleaner.  
Do not leave mixed material in equipment.

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## Technical Data:

### VOC Information

Satin MAP	4.3 - 4.7
MAP Catalyst	5.3 - 5.8
MAP Reducer	7.3 - 8.0
Ready to Spray (3:1:1)	5.3 - 5.5

### Performance Characteristics

Volume solids	33% - 43%
Volume solids (RTS)	25% - 31%
Theoretical Coverage (1 mil @ 100% transfer efficiency)	500 sq.ft./RTS gal.
Application Conditions	60°F (16°C) Minimum 100°F (38°C) Maximum
Relative Humidity	85% maximum 5° above dew point
Gloss	Satin 15° - 20° w/60° meter
Flash Point (Tag closed cup)	Below 80°F (27°C)

## 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 Material 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.

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