Matthews Acrylic Polyurethane Satin MAP incorporates the same quality performance of MAP® 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® Acrylic Polyurethane may be applied over:
- 6001SP Polyester Primer Surfacer
- 6007SP/6207SP 3.5 Gray Epoxy Primer
- 274 228SP E Prime White 2.8
- 274 685SP/274 686SP U Prime
- 274 808SP/274 909SP Black Epoxy Primer
- 274 908SP/274 909SP White Epoxy Primer
- 74350SP/74351SP 3.5 Non-Chromate Primer
- 74 734SP/74 735SP Metal Pretreatment
- 74 760SP/74 766SP PT Filler
- 74 770SP/74 766SP HBPT
- 74 780SP/74 781SP HBEF
- 74 777SP Tie Bond
- 274 777SP Low VOC Tie Bond
- 274 793SP Low VOC Spray 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°F (24 - 29°C)
- 6396SP  Hot temperature, 80°F (27°C) & above
- 45 251SP  Retarder
Directions for Use

Surface Preparation:

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

Mix Ratio:

Mix Ratios (by volume)

<table>
<thead>
<tr>
<th>Satin MAP</th>
<th>MAP Catalyst*</th>
<th>Map Reducer**</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 parts</td>
<td>1 part</td>
<td>1 part</td>
</tr>
</tbody>
</table>

* 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)

** Choose MAP reducer best suited for shop conditions

- SATIN MAP color, catalyst and reducer should be mixed 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:

MAP Reducers (Conventionally):

- 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°F (24 - 29°C)
- 6396SP Hot temperature, 80°F (27°C) & above
- 45 251SP Retarder

Additives:

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

- 287 437SP Accelerator
- 287 112SP Medium Suede Additive
- 287 113SP Suede Additive
- 47 333SP Anti-Crater Solution
- 47 444SP Brush/Roller Additive
- 47 474SP Flex Additive
- 47 888SP Flattening Paste
- 74 102SP MAP Converter
- 74 103SP Slow Converter
- SOA 950SP Gloss Modifier
- SOA 955SP Matting Clear
- (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
Directions for Use

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.

Factory Pack Colors:

6425SP Satin Hi-Hide White
41335SP Anodic Black

Drying Times:

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

Bake Dry with 43999SP 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.

Equipment Cleaning:

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

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

© 2016 Matthews Paint Company www.matthewspaint.com