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. 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: 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

**Benefits:**
- **Features:**
  - Satin-in-the-can: No additional flattening agent needed; Consistent gloss and finish; Less time to mix
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  - Brush and roll capability: For use in areas where air spraying is prohibited

**Compatible Surfaces:**
Satin MAP Acrylic Polyurethane may be applied over properly prepared:

<table>
<thead>
<tr>
<th>Surfaces</th>
<th>Primers</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>6001SP/01 Polyester Primer Surfer</td>
<td>74350SP/01 3.5 Non-Chromate Primer</td>
<td>LVU100/01 Ultra Low VOC Epoxy Primer</td>
</tr>
<tr>
<td>6007SP/01 3.5 Gray Epoxy Primer</td>
<td>74734SP/01 Metal Pretreatment</td>
<td>SMPFV205A/01 Chromate Free 3.5 VOC Wash Primer</td>
</tr>
<tr>
<td>274685SP/01 U Prime</td>
<td>74760SP/01 PT Filler</td>
<td>SMHB404A/01 Urethane Filler</td>
</tr>
<tr>
<td>274808SP/01 Black Epoxy Primer</td>
<td>74770SP/01 HBPT</td>
<td>SMP001A/01 Epoxy Gray Primer</td>
</tr>
<tr>
<td>274908SP/01 White Epoxy Primer</td>
<td>74780SP/01 HBEF</td>
<td>SMP002A/01 Epoxy White Primer</td>
</tr>
<tr>
<td>274528SP/01 2.1 VOC Gray Epoxy Primer</td>
<td>74777SP/01 Tie Bond</td>
<td>SH5106/01* White Primer</td>
</tr>
<tr>
<td>274530SP/01 2.1 VOC White Epoxy Primer</td>
<td>274777SP/01 Low VOC Tie Bond</td>
<td>Z6248/01 1K WB White Primer</td>
</tr>
<tr>
<td>274531SP/01 2.1 VOC Black Epoxy Primer</td>
<td>274793SP/01 Low VOC Spray Bond</td>
<td>*Also available in /PL or /DR</td>
</tr>
</tbody>
</table>

**Associated Products:**

<table>
<thead>
<tr>
<th>Catalyst</th>
<th>Reducer</th>
<th>Accelerator</th>
</tr>
</thead>
<tbody>
<tr>
<td>43270SP/01* Universal Catalyst</td>
<td>6379SP/01 Cool temperature, 60 - 75°F (16 - 24°C)</td>
<td>287437SP/08 HS Accelerator</td>
</tr>
<tr>
<td>43621SP/04 Brushing Catalyst (For brush or roller application)</td>
<td>45280SP/01 Warm temperature, 70 - 80°F (21 - 27°C)</td>
<td>47117SP/04 MAP Accelerator</td>
</tr>
<tr>
<td>43999SP/01 Slow Catalyst (For hot weather, bake application or for very large substrates)</td>
<td>45290SP/01 Very warm temperature, 75 - 85°F (24 - 29°C)</td>
<td>287484SP/08 HS Turbo Enhancer</td>
</tr>
<tr>
<td></td>
<td>4596SP/01 Hot temperature, 80°F (27°C) &amp; above</td>
<td>MAP-LVA117/08 Ultra Low VOC Accelerator</td>
</tr>
<tr>
<td></td>
<td>45251SP/01 Retarder, to be blended up to 50% with reducer. Not to be used by itself.</td>
<td></td>
</tr>
</tbody>
</table>

*Also available in /04
Surface Preparation: Substrate should be prepared according to Matthews Substrate Preparation Guide prior to topcoat application.

Mix Ratio: Mix Ratio for Spraying (by volume)

<table>
<thead>
<tr>
<th>Satin MAP</th>
<th>43270SP/04*</th>
<th>43999SP/01 Reducer**</th>
<th>with Accelerator</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 parts</td>
<td>1 part</td>
<td>1 part</td>
<td>Optional***</td>
</tr>
</tbody>
</table>

*Also available in /04
**Choose MAP reducer
• 6379SP/01 Cool temperature, 60 - 75°F (16 - 24°C)
• 45280SP/01 Warm temperature, 70 - 80°F (21 - 27°C)
• 45290SP/01 Very warm temperature, 75 - 85°F (24 - 29°C)
• 6396SP/01 Hot temperature, 80°F (27°C) & above
• 45251SP/01 Retarder, to be blended up to 50% with reducer. Not to be used by itself.
• 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:

<table>
<thead>
<tr>
<th>Application Method</th>
<th>Accelerator*</th>
<th>Max load of accelerator per RTS qt</th>
<th>Pot-Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spraying</td>
<td>Without Accelerator</td>
<td></td>
<td>8 hours</td>
</tr>
<tr>
<td></td>
<td>287437SP/08</td>
<td>1.5 oz</td>
<td>2 hours</td>
</tr>
<tr>
<td></td>
<td>MAP-LVA117/08</td>
<td>1 oz</td>
<td>45 min</td>
</tr>
<tr>
<td></td>
<td>47117SP/04</td>
<td>1 oz</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>287484SP/08</td>
<td>.5 oz</td>
<td>1 hour</td>
</tr>
<tr>
<td>Brush and Roll</td>
<td>Accelerator is Not Recommended when brushing or rolling</td>
<td></td>
<td>8 hours</td>
</tr>
</tbody>
</table>

*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:
• 47888SP/01 Flattening Paste (refer to MPC204)
• 287112SP/04 Medium Suede Additive
• 287113SP/04 Suede Additive
• 287103SP/01 Low VOC Basecoat Converter
• 47444SP/04 Brush/Roller Additive
• 47474SP/04 Flex Additive
• SOA955SP/01 Matting Clear (refer to MPC205)
**Satin MAP®**

**Directions for Use**

### Spray Set Up:

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

- **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

* Refer to spray gun manufacturer recommendations for inlet pressure.

### 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:**
  - Wet Film Thickness (WFT)
    - Per Coat: 3 - 4 mils
    - Total: 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**
  - Satin MAP (mixed 3:1:1 with catalyst and reducer)

<table>
<thead>
<tr>
<th>Accelerator*</th>
<th>Dust Free</th>
<th>Set to Touch</th>
<th>Dry to Handle</th>
<th>Tape Time</th>
<th>Vinyl Application (2-3 mils)</th>
<th>Reflective Metallic Vinyl Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without Accelerator</td>
<td>15 minutes</td>
<td>30 min-1 hour</td>
<td>1.5-2 hours</td>
<td>16 hours</td>
<td>48 hours</td>
<td>96 hours</td>
</tr>
<tr>
<td>287437SP/08</td>
<td>15 minutes</td>
<td>30-45 minutes</td>
<td>1-1.5 hours</td>
<td>1 hour</td>
<td>24 hours</td>
<td>48 hours</td>
</tr>
<tr>
<td>MAP-LVA117/08</td>
<td>15 minutes</td>
<td>30-45 minutes</td>
<td>1-1.5 hours</td>
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<td>24 hours</td>
<td>48 hours</td>
</tr>
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<td>47117SP/04</td>
<td>15 minutes</td>
<td>30-45 minutes</td>
<td>45 min-1 hour</td>
<td>45 minutes</td>
<td>24 hours</td>
<td>48 hours</td>
</tr>
<tr>
<td>287484SP/08</td>
<td>15 minutes</td>
<td>30-45 minutes</td>
<td>45 min-1 hour</td>
<td>2 hours</td>
<td>8 hours</td>
<td>24 hours</td>
</tr>
</tbody>
</table>

*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.*
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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