



**Low VOC Basecoat Converter**

# 287103SP/01

287103SP/01 Basecoat Converter is a premium quality acrylic additive specifically designed for use in any Matthews MAP® conventional or low VOC Acrylic Polyurethane\* colors to improve metallic control and to allow for quick multi-color layouts typically required for the architectural and commercial sign market.

The use of 287103SP/01 Basecoat Converter necessitates the application of a clear coat for exterior performance. The combination of basecoat with gloss clear exhibits the highest possible gloss and distinctness of image.



**Features:**

**Benefits:**

Converts all MAP® or SVOC topcoats\* to a basecoat.....Faster dry and tape time for multiple colors; Better metallic control  
 Can be topcoated with any Matthews clear .....Versatile; Long-term durability

**Compatible Surfaces:**

**Converted Matthews Basecoat may be applied over properly prepared:**

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

**Associated Products:**

Any Matthews Conventional or Low VOC colors (including associated catalysts and reducers)  
 Any Matthews Conventional or Low VOC clears (including associated catalysts and reducers)

**\*NOTE: 287103SP/01 Low VOC Basecoat Converter is not to be used in Matthews Ultra Low VOC topcoats or clears.**

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## 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)

Any Matthews SOA, N, or SV color/clear	:	Catalyst*	:	Converter	+	287437SP/08 Accelerator
3 parts	:	1 part	:	3 parts	+	1.5 oz per RTS qt** (optional)

\*Refer to Technical Data Sheet (TDS) for Matthews Topcoat or Clear being used.

\*\*To maintain 2.8 VOC, do not use accelerator.

No further reduction is necessary.  
All components should be mixed thoroughly before using.  
Strain material after mixing.



**Pot Life:** 8 hours

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 and accelerator use.

Note: mix no more product than can be used within pot life.

**Additives:**



None

**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
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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

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## Directions for Use

### 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, spray gun set-up, application, etc.

Recommended Film Thickness:		Per Coat	Total
	Wet Film Thickness (WFT)	1.5 - 2.0 mils	3.0 - 4.0 mils
	Dry Film Thickness (DFT)	0.3 - 0.5 mils	0.6 - 1.0 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

Accelerator	Dust Free	Set to Touch	Tape Time	Vinyl Application (2-3 mils)	Dry to Clearcoat
Without Accelerator	10-15 minutes	15-20 minutes	1.5 hours	4 hours	15-45 minutes
287437SP/08	10-15 minutes	15-20 minutes	30-40 minutes	2 hours	15-45 minutes

**Recoating:** Converted color or clear should clearcoat within 12 hours. Otherwise, lightly dry scuff with 320 - 400g by hand/machine or wet sanded with 600g, then cleaned again before reapplying basecoat and clearing.

\*Note: actual times may vary based on application variables, temperature, type of primer used, etc.

### Equipment Cleaning:

Clean equipment promptly with lacquer thinner or equivalent cleaning solvent.

**Note: Do not leave mixed material in equipment.**

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## Low VOC Basecoat Converter

### Technical Data:

#### Above 3.5 VOC Information using MAP or Satin MAP Acrylic Polyurethane

VOC Actual RTS	2.5 - 3.05 lbs/gal
VOC Actual RTS	300 - 365 g/L
VOC Regulatory (less water less exempt) RTS	4.16 - 4.95 lbs/gal
VOC Regulatory (less water less exempt) RTS	498 - 593 g/L

#### 3.5 VOC Information using Low VOC Satin Acrylic Polyurethane with up to 1.5 oz of 287 437SP per RTS qt.

VOC Actual RTS	0.78 - 1.42 lbs/gal
VOC Actual RTS	93 - 170 g/L
VOC Regulatory (less water less exempt) RTS	2.08 - 3.16 lbs/gal
VOC Regulatory (less water less exempt) RTS	249 - 379 g/L

#### 2.8 VOC Information using SV931 Low VOC Satin Acrylic Polyurethane as example

VOC Actual RTS	0.78 lbs/gal
VOC Actual RTS	93 g/L
VOC Regulatory (less water less exempt) RTS	2.08 lbs/gal
VOC Regulatory (less water less exempt) RTS	249 g/L

For complete VOC information, visit [MatthewsPaint.com](http://MatthewsPaint.com) > Quick Links > VOC Data

#### Performance Characteristics

Volume solids (RTS)	20.8% - 26.9%
Theoretical Coverage (1 mil @ 100% transfer efficiency)	333 - 431 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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