



MPC128

U-Prime White Urethane Primer (only stand-alone primer)

274 685SP

The 274 685SP/274 686SP U-Prime system is a two-component urethane primer with rust inhibitors for use on aluminum or steel.

U-Prime is white in color which makes this a dual purpose product. An entire sign can be primed white with only the exterior surfaces requiring a Matthews Acrylic Polyurethane topcoat.

When mixed according to directions, U-Prime will comply with emissions requiring a VOC level of 2.8 lbs./gal to 3.5 lbs./gal. It has good adhesion to properly prepared and cleaned aluminum or steel and provides an excellent base for all MAP® topcoats.



Features:

- VOC Compliant
- Rust Inhibitor

Benefits:

- White Color
- Dual Purpose

Compatible Surfaces:

U-Prime 274 685SP may be applied over:

- Properly cleaned and sanded steel
- Properly cleaned and sanded blasted steel
- Properly cleaned and sanded carbon steel
- Properly cleaned and sanded galvanized steel
- Properly cleaned and sanded aluminum
- Properly cleaned and sanded fiberglass
- Foam Board
- Body Fillers
- MAP®
- SATIN MAP®
- SVOC MAP®
- VOC MAP®

Undercoats:

- 74 734/74 735SP Metal Pretreatment
- 74 760/74 766SP PT Filler
- 74 770/74 766SP HBPT
- 74 780/74 781SP HBEF

Required Products:

274 686SP U-Prime Hardener

287 437SP Accelerator

2.8 Exempt VOC Reducers

6370SP Exempt Cool Temperature, 60 - 75°F (16 - 24°C)

6371SP Exempt Warm Temperature, 70 - 85°F (21- 29°C)

6372SP Exempt Hot Temperature, 80°F (27°C) & above

3.5 VOC Reducers

6300SP Cool Temperature, 60 - 75°F (16 - 24°C)

6301SP Warm Temperature, 70 - 85°F (21- 29°C)

6302SP Hot Temperature, 80°F (27°C) & above

274 685SP

Directions for Use

Surface Preparation:



- Clean with 6405SP Low VOC Cleaner. *Refer to MPC172 Technical Bulletin.*
- Never let cleaner dry on surface.

Mix Ratios:

Mix Ratios (by volume)

2.8 VOC



274 685SP U-Prime	274 686SP U-Prime Hardener	6370SP, 6371SP or 6372SP Exempt Reducer	+	287 437SP Accelerator
5 parts	1 part	1 part	+	6 oz./RTS Gal.

3.5 VOC



274 685SP U-Prime	274 686SP U-Prime Hardener	6300SP, 6301SP or 6302SP Reducer	+	287 437SP Accelerator
5 parts	1 part	1 part	+	6 oz./RTS Gal.



- Mix thoroughly before using.
- Strain material following mixing.



Pot life is approximately 3 hours at 70°F (21°C).

Reducers:

Exempt MAP Reducers (2.8 VOC):

6370SP	Exempt Cool Temperature, 60 - 75°F (16 - 24°C)
6371SP	Exempt Warm Temperature, 70 - 85°F (21 - 29°C)
6372SP	Exempt Hot Temperature, 80°F (27°C) & above

Low VOC MAP Reducers (3.5 VOC):

6300SP	Cool Temperature, 60 - 75°F (16 - 24°C)
6301SP	Warm Temperature, 70 - 85°F (21 - 29°C)
6302SP	Hot Temperature, 80°F (27°C) & above

Additives:



287 437SP Accelerator - Required

No other Additives are recommended for use with the product.

Directions for Use

Spray Set Up:



Air Pressure:	Conventional:	55 - 65 psi at the gun
	HVLP:	10 psi at the cap
	Pot Pressure:	15 - 18 psi

Gun Set Up:	Siphon Feed:	1.6 mm 0.063 fluid tip
	HVLP:	1.4 mm 0.055 fluid tip
	Pressure Pot:	1.2 mm 0.046 fluid tip

Application:



Apply:	1 full wet coat
	Flash 10 - 15 min. between coats
	Follow with a second full wet coat

Recommended
Wet Film Thickness: 2.0 - 2.5 mils/coat

Recommended
Dry Film Thickness: 1.5 - 2.0 mils

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 poor water and chemical resistance, decreased durability and improper curing will occur.

Drying Times:



Dry Times at 70°F (21°C)	
Dust Free	
with 287 437SP Accelerator	15 - 20 minutes
Tack Free	
with 287 437SP Accelerator	30 minutes
Dry to Handle	
with 287 437SP Accelerator	1 hour
Dry to Topcoat	
with 287 437SP Accelerator	30 - 60 minutes

Note: After 24 hours, a light sanding with 320 - 400 grit dry by hand or machine and tack wiping is recommended for good adhesion of the topcoat.

Equipment Cleaning:

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

274 685SP

**U-Prime
White Urethane Primer**

Technical Data:

2.8 VOC

274 685SP U-Prime	2.68
274 686SP U-Prime Hardener	2.21
6370SP, 6371SP or 6372SP Reducer	Exempt
287 437SP Accelerator	7.97
Ready to Spray (5:1:1 + 6 oz. 287 437SP)	2.8

3.5 VOC

274 685SP U-Prime Primer	2.68
274 686SP U-Prime Hardener	2.21
6300SP, 6301SP or 6302SP Reducer	6.4
287 437SP Accelerator	7.97
Ready to Spray (5:1:1 + 6 oz. 287 437SP)	3.5

Performance Characteristics

Volume Solids	60.8%
Volume Solids RTS	43%
Theoretical Coverage (1.0 mil @ 100% transfer efficiency)	819 sq.ft./RTS gal.
Application Conditions	60°F (15°C) min. 100°F (38°C) max.
Relative Humidity	85% max. 5° above dew point
Flash Point (<i>Tag closed cup</i>)	50°F (10°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