



MPC128

U-Prime White Urethane Primer

274 685SP

274 685SP U-Prime is a two-component urethane primer. 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.

U-Prime has good adhesion to a wide range of properly prepared and cleaned substrates and is an excellent undercoat for all MAP® topcoats.

274 685SP is an excellent undercoat for all MAP® topcoats.



Features:

Benefits:

Low VOC technology.....	Environmentally friendly; Meets 2.8 or 3.5 VOC regulations
Chromate-free.....	Meets EPA regulations for chromate restrictions
Topcoat with any Matthews Acrylic Polyurethane finishes.....	Versatile, multi-purpose
Compatible over various substrates.....	For multiple applications; Fewer products to stock
Brush and roll capability.....	For use in areas where air spraying is prohibited
2K Urethane technology.....	Provides excellent adhesion and long-term durability
Excellent filling properties.....	Capable of hiding minor metal substrate defects
24 hour topcoat window.....	No sanding required prior to topcoating within window

Compatible Surfaces:

274 685SP U-Prime may be applied over properly prepared:

Steel	Aluminum	Masonry
Blasted steel	Fiberglass	Wood
Carbon steel	Previously painted surfaces	HDU
Galvanized steel	Body filler	

Associated Products:

Catalyst 274 686SP U-Prime Hardener	3.5 VOC Reducer 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	Accelerator 287 437SP HS Accelerator
	2.8 VOC Reducer 6370SP Cool temperature, 60 - 75°F (16 - 24°C) 6371SP Warm temperature, 70 - 85°F (21 - 29°C) 6372SP Hot temperature, 80°F (27°C) & above	

274 685SP

Directions for Use

Surface Preparation: Substrate should be prepared according to Matthews Substrate Preparation Guide prior to primer application.

Mix Ratio:



Mix Ratio for Spraying (by volume)

274 685SP	274 686SP		287 437SP
U-Prime	U-Prime Hardener	Reducer*	Accelerator (required)
5 parts	1 part	1 part	1.5 oz./RTS qt

*Choose VOC MAP reducer

3.5 VOC Reducer

- 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

2.8 VOC Reducer

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

NOTE: Larger jobs may require a hotter temperature reducer.

All components should be mixed thoroughly before using

Strain material after mixing



Pot Life: 3 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, reducer selection, and accelerator choice.

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

Additives:



None

274 685SP

Directions for Use

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



Gun Set Up: Siphon Feed: 1.4 - 1.6 mm 0.055 - 0.063 fluid tip
HVLP: 1.4 - 1.6 mm 0.055 - 0.063 fluid tip
Pressure Pot: 1.0 - 1.2 mm 0.039 - 0.047 fluid tip

Application:



Apply: Apply two full wet coats, allowing proper flash time* between coats. Apply additional coats as necessary to achieve total dry film thickness.
*Flash times will vary dependent upon film thickness, temperature, solvent selection, spray gun set-up, application, etc.

Recommended Film Thickness:		Per Coat	Total
	Wet Film Thickness (WFT)	2.0-2.5 mils	4.0-5.0 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
Dust Free 15 - 20 minutes
Dry to Touch 30 minutes
Dry to Handle 1 hour
Dry to Topcoat 30 minutes - 24 hours (max)*
Dry to Sand (optional) 16 hours

*After 24 hours sand with a 320 - 400 grit (wet or dry) before proceeding to the next undercoat or topcoat. Do not sand below minimum dry film thickness.

Equipment Cleaning:

Clean equipment promptly with lacquer thinner or equivalent cleaning solvent.
Note: Do not leave mixed material in equipment.

274 685SP

U-Prime White Urethane Primer

Technical Data:

3.5 VOC Information

VOC Actual RTS	2.72 lbs/gal
VOC Actual RTS	326 g/L
VOC Regulatory (less water less exempt) RTS	3.05 lbs/gal
VOC Regulatory (less water less exempt) RTS	365 g/L

2.8 VOC Information

VOC Actual RTS	2.28 lbs/gal
VOC Actual RTS	273 g/L
VOC Regulatory (less water less exempt) RTS	2.77 lbs/gal
VOC Regulatory (less water less exempt) RTS	332 g/L

For complete VOC information, visit MatthewsPaint.com > Quick Links > VOC Data

Performance Characteristics

Volume solids (RTS)	43%
Theoretical Coverage (1 mil @ 100% transfer efficiency)	819 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

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