



Ultra Low VOC Epoxy Primer

MAP-LVU100/01

MAP-LVU100/01 is a white 2K epoxy primer formulated to deliver less than 50 g/L VOC at application.

This chemically cross-linked coating is designed to offer outstanding adhesion and corrosion resistance over properly prepared substrates.

It can be applied by brush and roll application as well as by spray, and it is compatible with MAP® series topcoats.



Features:

Benefits:

Ultra Low VOC technology	Environmentally friendly, meets the most stringent 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
Epoxy technology	Excellent corrosion resistance, superior adhesion to substrate
Excellent filling properties	Capable of hiding minor metal substrate defects
Easy mix ratio	Less time mixing
24 hour topcoat window	No sanding required prior to topcoating within window

Compatible Surfaces:

MAP-LVU100/01 Primer may be applied over properly prepared:

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

Associated Products:

Catalyst	Reducer
MAP-LVX101/04 Catalyst	MAP-LVRU01/04 Exempt Low VOC Primer Reducer

MAP-LVU100/01

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)

MAP-LVU100/01 MAP-LVX101/04 MAP-LVRU01/04

3 parts

1 part

1 part

- 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. 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



Gun Set Up:

Siphon Feed:

1.3 - 1.5 mm 0.051 - 0.059 fluid tip

HVLP:

1.3 - 1.5 mm 0.051 - 0.059 fluid tip

Pressure Pot:

1.0 - 1.2 mm 0.039 - 0.047 fluid tip

MAP-LVU100/01

Directions for Use

Application:



Apply:

Apply one to 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:

	One Coat Application	Two Coat Application
Wet Film Thickness (WFT)	3 mils	6 mils
Dry Film Thickness (DFT)	1.5 mils (minimum)	3 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 45 minutes - 1 hour

Dry to Handle 1.5 - 2 hours

Dry to Topcoat (spray) 30 minutes

Dry to Topcoat (brush/roll) 1.5 - 2.5 hours

*After 24 hours, sand with a 220-400 grit dry, or equivalent sanding pad. Do not sand below minimum dry film thickness, otherwise reprime before topcoating.

Equipment Cleaning:

Clean equipment promptly with lacquer thinner or equivalent cleaning solvent.

Note: Do not leave mixed material in equipment.

Technical Data:

VOC Information

VOC Actual RTS	0.22 lbs/gal
VOC Actual RTS	26 g/L
VOC Regulatory (less water less exempt) RTS	0.41 lbs/gal
VOC Regulatory (less water less exempt) RTS	49 g/l

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

Performance Characteristics

Volume solids (RTS)	50.8%
Theoretical Coverage (1 mil @ 100% transfer efficiency)	815 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

MAP-LVU100/01 **Ultra Low VOC Epoxy Primer**

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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