



Matthews Acrylic Polyurethane

MAP-LV[®] SPECIFICATIONS

MAP[®]-LV (Matthews Acrylic Polyurethane) is an ultra-low VOC, UV resistant, acrylic polyurethane system engineered for extreme color and gloss retention. It exhibits excellent flexibility and is lead and heavy metal free.

Performance Data:

Excellent weather resistance even in harsh industrial environments. Slick surface resists dirt, pollutants, and abrasion. Withstands chipping, color-fade, gloss loss and graffiti on interior and exterior surfaces.

Characteristics:

Gloss levels based on a 60 degree gloss meter.

- Matte:** 0-8 degrees
- Satin:** 15-30 degrees
- Semi gloss:** 40-60 degrees
- High gloss:** 80+ degrees

Performance Characteristics:

Pencil Hardness..... HB
Flexibility..... 1/8” Mandrel, No Cracks
Impact Resistance
 Forward @ 2 Weeks Air Dry..... 150+ in/lbs
 Reverse @ 2 Weeks Air Dry..... 150+ in/lbs
Theoretical Coverage (Varies with Color)
 1 mil DFT @ 100% Transfer Efficiency..... 727-761 sq ft
 per (RTS) gal
Flash Point (Tag Closed Cup)..... Below 70°F/21°C
Recommended Dry Film Thickness..... 2.0 mil DFT
 min.
Volume Solids..... 47.1% – 61.2%
Volume Solids (RTS)..... 45.28 - 54.88%
Application Conditions..... 60°F/16°C Minimum
 100°F/38°C Maximum
Relative Humidity..... 85% Maximum
Substrate Temperature..... 5° Above Dew Point,
 60°F/16°C Minimum
Equipment..... Conventional, HVLP, or Electrostatic

VOC Actual RTS..... 0.18 - 1.91 lbs/gal
VOC Actual RTS..... 22 - 229 g/L
VOC Regulatory (less water less exempt) RTS..... 0.36 - 2.34 lbs/gal
VOC Regulatory (less water less exempt) RTS..... 43 - 280 g/L

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

Solvent Resistance
 100 MEK Double Rubs @ 1 Day Air Dry..... No Effect

Chemical Resistance 10% Solutions
 Acids No Effect
 Alkalis No Effect

Salt Fog - 1000 hours
 Adhesion Rating..... 5A
 Scribe Creep Rating..... 9
 Face Blister Rating..... 9

Gloss Retention – QUV B
 1500 hours @ 60° 92%

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

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Important: Refer to SDS for safety guidelines. Use in a well ventilated area with appropriate Personal Protective Equipment (PPE) to protect eyes, skin, and respiratory system.

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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