



Matthews Acrylic Polyurethane

MAP[®] SPECIFICATIONS

MAP[®] (Matthews Acrylic Polyurethane) is a UV resistant, aliphatic, acrylic polyurethane system engineered for extreme color and gloss retention. 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	2H
Flexibility	1/8" Mandrel, No Cracks
Impact Resistance	
Direct @ 1 Week.....	120 in/lbs
Theoretical Coverage (Varies with Color)	
1 mil DFT @ 100% Transfer Efficiency.....	500 sq ft per (RTS) gal
Flash Point (Tag Closed Cup)	Below 80°F/28°C
Recommended Dry Film Thickness	2.0 mil DFT min.
Volume Solids	33% - 43%
Volume Solids (RTS)	25% - 31%
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	4.46 - 5.50 lbs/gal
VOC Actual RTS	534 - 659 g/L
VOC Regulatory (less water less exempt) RTS	4.46 - 5.49 lbs/gal
VOC Regulatory (less water less exempt) RTS	534 - 658 g/L
For complete VOC information, visit MatthewsPaint.com > Quick Links > VOC Data	
Solvent Resistance	
30 minute contact after 7 days curing.....	Excellent
Chemical Resistance 10% Solutions	
Acids.....	Excellent
Alkalis.....	Excellent
Salt Spray - 2000 hours	No Effect
Gloss Retention – Weatherometer	
1000 hours @ 20°.....	88%
1000 hours @ 60°.....	97%
Abrasion Resistance 1000 revolutions	CS-10 wheel .248 grams
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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