

## Permalac Original (Satin or Matte)

*Our best-selling, air-dry acrylic lacquer for interior and exterior use*

### Intended Use(s):

Permalac Original is the ultimate solution for protecting various surfaces. It can be directly applied to a wide range of surfaces without requiring a primer. Its advanced UV and corrosion inhibitors make it the go-to choice for even the harshest environments. Permalac offers exceptional resistance to environmental corrosives, making it ideal for both interior and exterior applications. It has excellent adhesion to various substrates, including metals, wood, and stone. Additionally, it provides full protection against mold and mildew. One gallon of Permalac covers approximately 400 square feet in a single coat.

### Physical Properties

<b>Color</b>	Clear
<b>Gloss at 20/60</b>	35.878 (on steel)
<b>Volume Solids</b>	12.5%
<b>Weight Solids</b>	14%
<b>Weight per Gallon</b>	7.3 lbs
<b>Coverage per Gallon</b>	400 sq ft
<b>VOC</b>	718 g/l
<b>Dry Film Thickness</b>	0.3-0.5 mils

### Physical Resistance (on steel)

<b>Adhesion (ASTM 3359 &amp; Crosshatch test)</b>	5B
<b>Pencil Hardness (ASTM 3363)</b>	4B
<b>Taber Abrasion Test</b>	11.8 mg @ 300 cycles

<b>Flexibility (ASTM D522)</b>	Passed Mandrel Bending Test
<b>Impact (ASTM D2794)</b>	160/80
<b>MEL Double Rubs (ASTM D4792)</b>	10

#### **Corrosion Resistance (ASTM B117, 5% NaCl spray)**

10= no rust, 0= rusted

100 hrs	200 hrs	300 hrs
6	5	3

#### **UV resistance (ASTM 155 Cycle 1 Testing, xenon arc)**

After 1000 hrs, no visible degradation.

#### **Application Characteristics**

<b>Mix Ratio</b>	Full strength for brush, reduce 20% for spraying
<b>Reducer</b>	#281 (standard), #69 (hot weather), #700 (0 VOC thinner)
<b>Cleaning Solvent</b>	Lacquer thinner or acetone
<b>Dry Time</b>	0.25 hour to touch dry, 0.5-1 hour recoat
<b>Cure Time</b>	24 hours; allow 72 hours prior to handling or shipping

#### **Application Equipment**

HVLP spray gun, Cap tip 1.0, 15-20 PSI

Solvent-resistant brush

**\*Disclaimer:** *All tests were done using Permalac Original Satin finish. It's expected that Permalac Original Matte finish will perform to the same specification.*