

## Product Information (PI) Sheet

**Product:** UltraStar Water Borne Clear Lacquer

<b>Code(s):</b>	<b>C599 12</b> <b>Dull</b>	<b>C599 14</b> <b>Satin</b>	<b>C599 16</b> <b>Semi-Gloss</b>	<b>C599 18</b> <b>Gloss</b>
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**Description:** A technically advanced self-sealing, easy sanding, one-component water borne coating for interior wood surfaces. Based on the latest polymer chemistry, this unique blend of polyurethane and acrylic resins exhibits fast dry, outstanding moisture resistance and durable film properties normally only found in the best nitrocellulose precatalyzed lacquer.

**Uses:** For use on kitchen and bathroom cabinets, dormitory, household and office furniture. Also for use on toys, paneling and display fixtures.

**Other Products:** For stain information, see M.L. Campbell WoodSong II Wiping Stain information.

Physical Properties (packaged)	
<b>Weight per Gallon:</b>	8.45-8.55 lbs.
<b>Viscosity - Ford #4 at 77°F/25°C:</b>	20 – 25 seconds
<b>% Solids - by Weight:</b>	25-28 ± 2.0
<b>% Solids - by Volume:</b>	23-27.4 ± 2.0
<b>Theoretical Coverage at 1 Mil Dry:</b> (Coverage figures DO NOT INCLUDE spray loss. Also allow for surface irregularities and porosity of wood surface to be finished.)	370-413 sq. ft. per gallon
<b>Flash Point ( PMCC):</b>	200°F (+) (93°C) (+)
<b>Color:</b>	Milky White
<b>Sheen (60° Glossmeter):</b>	13-85 +
<b>Packaged VOC:</b>	249 g/l (2.08 lbs./gallon)
<b>Photochemically Reactive:</b>	No

Surface Preparation	
<b>New Work:</b>	Remove any dirt, grease or other construction contamination from surface. Sand wood as required.
<b>Old Work:</b>	Remove any dirt, grease or other contamination from surface. Sand well to improve adhesion. If cratering develops, WR-4 Anti-Cratering Additive may remedy this problem, if the contamination is not too severe.

Reduction	
No reduction is required; however, small amount of Aquastar Water Borne Flow Additive may be used for specific equipment. Thinning should be limited to 5% otherwise sagging may occur.	

### Application Procedure

All surfaces should be well sanded. Scuff sanding between coats is necessary. Remove all sanding dust before proceeding with finishing. Wet mil film application should be 3 to 4 mils per coat. Coat quickly, product dries fast - thinner coats dry faster. When applying over a stain, be sure stain has dried completely. Follow stain manufacturer's recommended drying schedule. Total dry film thickness should not exceed 5 mils.

**Refer to spray equipment suppliers, recommendations for fine lacquer atomizing spray guns, air caps and fluid needles.** Spray application only is recommended for Ultrastar. Note: Hot spray application is not recommended. If hot spray equipment is used, temperature setting should never be over 110°F (43°C). Apply using only stainless steel or plastic spray equipment. If aluminum equipment is used, some oxidation may occur.

### Equipment Clean Up

- All equipment should be flushed with warm water immediately after use.
- Adding a small amount of ammonia to the water will improve cleanup.
- A subsequent flush with alcohol will insure all moisture is removed from the system.

### Drying Times (at 77° F or 25° C)

**Dry to Touch:** 30-40 minutes

**Sanding Dry:** 40-60 minutes

**Stacking Dry:** 6-12 hours

### Packaging/Shipping

**Available Units:** Gallons and Pails.

### Shelf Life and Storage

Freezable – store in airtight containers. Protect from temperature extremes. Shelf life is 3 years.

### DOT Classification

Hazardous - No

CTNS

2005

### B/L Description

Paint and Related Materials

Do Not Freeze

### Caution

- **THESE PRODUCTS ARE DESIGNED FOR SHOP APPLICATION AND PROFESSIONAL USE ONLY.**
- Use only after all safety information is understood.
- Refer to the Material Safety Data Sheet (MSDS) for additional information.

### Testing

Due to the wide variety of substrates, surface preparation methods, application methods, and environments, customers should test the complete system for adhesion and compatibility under their conditions prior to full-scale application.

### Notes

The information, rating, and options stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application that are not known or under our control, M.L. Campbell cannot make any warranties as to the end result. *Thank you for using M.L. Campbell g products.*