AUF2013
Ultraguard™ Lab Conversion Varnish

Date: March 18, 2019 (supersedes all previous revisions)

GENERAL INFORMATION

Axalta's Ultraguard™ Lab Conversion Varnish is a premium quality, post-catalyzed varnish, formulated to offer superior durability in a demanding environment and meet SEFA Chemical Resistance Testing. They are ideal for laboratory furniture, hospitality tables, healthcare furniture or anywhere an extremely tough, and durable coating is needed. Ultraguard™ Lab Conversion Varnishes is supplied ready to spray (after catalyzation) and needs no further reduction. This product is designed for Professional use only. For wood substrates only.

1. PRODUCTS

- AUF2013

2. MIXING RATIO

- Stir thoroughly, do not shake. Catalyzation**:** 3.8 oz per gallon (3% by volume) with CXC4000. VOC max catalyzed is 550 g/l. 11 oz. per gallon (8.5% by volume) with CXC4010. VOC will exceed 550 g/l

3. SHELF LIFE @ 77°F (25°C)

- 18 months as packaged. 8-12 hour pot life @77° F once catalyzed

4. CLEAN UP

- Dispose of dirty solvent and cleaning rags in a safe and compliant manner. Solvent or lacquer soaked rags should be stored in water-filled, closed containers prior to disposal.

5. ADDITIVES

- Use YXT1008 up to 5% to extend dry times.

6. SURFACE PREPARATION

- Surface must be clean and dust free with a moisture content of 6-8% prior to finishing. Remove all dust, dirt, wax and wood marks. Proper sanding and preparation of the wood is critical to achieving consistent results.
- On new wood, finish sand surface with 150-180 grit sandpaper
- On previously finished wood, remove all old paint or varnish and follow new wood procedure.

7. COMPANION PRODUCTS

- Color Choice Program
- AUS5800

8. TECH NOTES

- No thinning is recommended.

9. SUBSTRATES

- Commonly used furniture and cabinetry woods
- MDF/HDF

NOTE: Not to be used on exterior applications

10. APPLICATION

- Ready to spray. May be used as a self-seal topcoat. No thinning is recommended.
- Do not apply more than 4 coats at 3-4 wet mils per coat when used as a self-seal system. Maximum film thickness of the total coating system must not exceed 4 dry mils.

11. FLASH / DRY TIMES

AIR DRY @ 77°F (25°C)

Dry to touch	15 - 20 Minutes
Flash between coats	35 - 45 Minutes
To Stack	12 - 16 Hours

12. FORCE DRY

Flash	8 – 10 Minutes
Bake	15 Minutes @ 140°F
Cool Down	10 Minutes ambient
Stack	After cool down

13. GUN SET UP

Gravity Feed	1.4 mm - 1.8 mm
Siphon Feed	1.4 mm - 1.8 mm
Airless	10 – 15 thousandths
Air-Assisted Airless	11 – 15 thousandths

AIR PRESSURES

Gravity Feed	30-35 psi (2.0-2.4 bar)
Siphon Feed	35-40 psi (2.4-2.8 bar)
Air-Assisted Airless	5-10 psi (0.3-0.7 bar)
See spray gun manufacturer data for more information	

14. PHYSICAL DATA

Viscosity	19-24" @77F #2 EZ ZAHN
Weight Solids %	28.7%
Volume Solids %	21.6%
Actual VOC	4.8 lbs/gal of Product
VOC Ratio (lb.voc/lb.solids)	2.25 (lbVOC/lb solid)
Regulatory VOC (less water and exempt solvents)	622 g/l
Weight Per Gallon	7.5 1bs/gal
Flash Point	1ºF Closed Cup
Theoretical Coverage	348.9 ft/gal @ 1 mil dry
VHAP (lb.HAP/lb.solids)	.25 lb VHAP/lb solid
Photochemically Reactive	No
Coating Category	Clear

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Application Notes:

General: Always pre-test the system on your substrate to verify suitability of the application. If staining, use an approved Axalta Stain and let dry per the directions on the Technical Data Sheet for the stain you choose. Agitate well before applying. While under agitation, catalyze the lab conversion varnish at a rate of 2.5 oz per gallon (2% by volume) with CXC4000 or CXC4010 and let mix for 5-10 minutes or until the catalyst is thoroughly incorporated. Stir thoroughly before use and occasionally during use. Apply by spray only, using Conventional Air, HVLP, Airless, or Air Assisted Airless equipment. Sand between coats with 240-320 grit, no fill type sandpaper. Remove sanding dust before applying the next coat. This finish must be sanded between coats for proper adhesion. Maximum film thickness of the total coating system MUST NOT EXCEED 4 dry mils.

A minimum of two coats at 3+ wet mils is required to pass SEFA chemical resistance testing. A three coat system improves test results, subjecting each dried coat to 5 minutes at 120ºF further enhances performance. If using a sealer a minimum of two topcoats are required to achieve full performance.

Drying Time:

Dry to touch: 15-20 minutes. Dry to sand and recoat: 35-45 minutes (depending on ambient conditions).

Do not apply if the material or substrate temperature is below 55ºF.

This product is best applied when surface and air temperatures are between 55º-90º F (~12-32°C) and when relative humidity is below 50% during application and drying time.

Pot Life: 8-12 hours @77° F

Clean Up:

Refer to your local regulations for compliance requirements for cleaning solvents. Dispose of dirty solvent and cleaning rags in a safe and compliant manner. Solvent or lacquer soaked rags should be stored in water-filled, closed containers prior to disposal.

Precautions:
These products are recommended for professional application and are designed for interior use only. Always pre-test the system on your substrate and under your line conditions to verify suitability to the application and to avoid potential need for costly refinishing. Axalta Industrial Wood Coatings are designed to protect and enhance the natural beauty of wood, but cannot eliminate natural discoloration or deterioration of wood as it ages.

Additional notes:
Do not mix with other finishing systems or deviate from these finishing recommendations. Axalta will not be held liable for finish failures resulting from the mixing of products or deviations from finishing recommendations.

Storage:
Store in a cool, dry place. DO NOT FREEZE! Product should be stored in temperatures between 50°-110°F. Close all containers after use. Do not store near heat or sparks. Spills should be cleaned up with non-sparking tools. See the product MSDS for complete safety information.

Warning:
Always pre-test the system on your substrate and under your line conditions to verify suitability to the application and avoid potential need for costly refinishing. All dry times listed are as tested under ideal indoor environmental conditions of 78°F (26°C) with relative humidity not exceeding 50%. These products are recommended for use under temperature conditions of 60-100°F (16-38°C) and when relative humidity is below 50% during application and drying time. Low temperatures, poor air circulation or high humidity will extend dry times. **Axalta strongly recommends against use of these products if temperatures of air, material, or surface to be coated are below 60°F (16°C) or below the dew point. Abnormal conditions of temperature or humidity may adversely affect product performance.** Please contact your authorized Axalta Industrial Wood Coatings distributor for additional product use recommendations and finishing guidance.