

AUW481X

Ultraguard™ White Conversion Varnishes- 550 VOC-Low HAPs



Date: March 19, 2019 (supersedes all previous revisions)



GENERAL INFORMATION

Axalta's Ultraguard™ White Conversion Varnishes are super-premium, post-catalyzed, acid-cured varnishes formulated for high build and superior performance on MDF and other wood substrates used in interior finishing. They are fast drying and easy to apply coatings which offer superior film build properties and mar, chemical and moisture resistance characteristics. These products can also be used as a white/pastel base and the containers are short filled for easy tinting. For Wood Substrates Only.



1. PRODUCTS

- AUW4819- Gloss AUW4812- Satin
- AUW4814- Soft Gloss



2. MIXING RATIO

- All products should be stirred well before use and, for best results, continuously agitated while in use
- Catalyzation: 5 oz per gallon (4% by volume) with CXC4000. VOC max catalyzed is 550 g/l. 7.7 oz. (6% by volume) CXC4005. 17 oz. per gallon (13.3% by volume) CXC4010. VOC will exceed 550 g/l using CXC4010. (see reverse for potlife)



3. SHELF LIFE @ 77°F (25°C)

- 18 months as packaged



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

- May be reduced if needed with YYT0013 or YYT1009 up to 10%. * Max VOC after recommended 10% reduction is 550 g/l. Always catalyze before reducing.



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

- AUW4810-Ultraguard™ White Conversion Varnish Undercoat



8. TECH NOTES –

9. SUBSTRATES

- Commonly used furniture and cabinetry woods
- MDF/HDF

NOTE: Not to be used on exterior applications



11. FLASH / DRY TIMES

AIR DRY @ 77°F (25°C)

Dry to touch	15-20 Minutes
Flash between coats	30-45 Minutes
To Stack	16 - 24 Hours



12. FORCE DRY

Flash	8 – 10 Minutes
Bake	15 Minutes @ 125°F
Cool Down	10 Minutes ambient
Stack	After cool down



13. GUN SET UP

Gravity Feed	1.6 mm – 2.0 mm
Siphon Feed	1.6 mm – 2.0 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	29-35 sec. EZ Zahn 2
Weight Solids %	56.36-59.45%
Volume Solids %	42.22-47.43%
Actual VOC	4.19-4.42lbs/gal of Product
VOC Ratio (lb.voc/lb.solids)	0.68-0.77lb VOC/lb solid
Regulatory VOC (less water and exempt solvents)	448.1-494.88 g/l
Weight Per Gallon	9.91-10.33 lbs/gal
Flash Point	22°F Closed Cup
Theoretical Coverage	677-760 ft/gal @ 1 mil dry
VHAP (lb.HAP/lb.solids)	0.39-0.49lb VHAP/lb solid
Photochemically Reactive	Yes
Coating Category	White

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Application Notes:

Tinting:

This product can be tinted with approved, high quality industrial colorants such as Opticolor XP (Check with your Axalta Industrial Wood Coatings Distributor for other approved colorants). Maximum tint load is 4 oz per gallon (3% by volume). Colorants must be mixed in completely with mechanical agitation before use.

General:

Always pre-test the system on your substrate to verify suitability of the application. First-Prime the wood with AUW4810 for best results. Choose the appropriate sheen from the series and agitate well before applying. While under agitation, catalyze the AUW481X series conversion varnish (short filled container or full gallon) with CXC4000, CXC4005 or CXC4010 at the appropriate rate 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. Apply at a rate of 3-4 wet mils per coat. 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. DO NOT APPLY more than two coats at 3-4 wet mils per coat when used in conjunction with the AUW4810 Undercoat. Maximum film thickness of the total coating system MUST NOT EXCEED 4 dry mils.

Drying Time:

Dry to touch: 15-20 minutes. Dry to sand and recoat: 30-45 minutes (depending on ambient conditions).

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

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

Potlife: 8-12 hours @77° F using CXC4000 or CXC4010, 24 hours using CXC4005. (Temperature and humidity can affect potlife, always measure catalyst accurately)

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.