

TAF800X

Solvent Borne 2K Urethane

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



GENERAL INFORMATION

Axalta's 2K Urethane Topcoat is a premium 2 component coating formulated specifically for wood to provide exceptional finishing properties including chemical, moisture, and scratch resistance. **Important Note:** This product must be applied following specific standard operating procedures used within an Axalta system only. Some of these systems require the use of an acid cure sealer. Only approved stains, glaze and sealers can be used in this system. See your Axalta representative or Authorized Distributor for the standard operating procedure required for your application. For Wood Substrates Only.



1. PRODUCTS

- TAC8009-Gloss
- TAF8002-Satin
- TAF8001-Matte



2. MIXING RATIO

- All products should be stirred well before use and, for best results, continuously agitated while in use.



3. SHELF LIFE @ 77°F (25°C)

- 18 months un-catalyzed @77°F, 4-6 hour pot-life 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 if needed to slow dry time. Maximum of 8 oz per gallon* Add only after catalyzing



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

- AUS5500 • AUS4610
- Stains and glazes-see specific SOP system documents



8. TECH NOTES

- This product is ready to spray once catalyzed. However, YTT7000 may be used to reduce viscosity. Maximum of 20% by volume* Reduce only after catalyzing.



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	20 - 25 Minutes
Flash between coats	35 - 45 Minutes
To Stack	16 Hours



12. FORCE DRY

Flash	15 Minutes
Bake	10 Minutes @ 150°F
Cool Down	1-2 Hours
Stack	16 Hours



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	16 - 19 SECONDS EZ ZAHN #2
Weight Solids %	36.0-38.81%
Volume Solids %	28.31-29.71%
Actual VOC	5.09-5.19lbs/gal of Product
VOC Ratio (lb.voc/lb.solids)	1.58-1.78lb VOC/lb solid
Regulatory VOC (less water and exempt solvents)	609.66-621.78 g/l
Weight Per Gallon	8.02-8.32 lbs/gal
Flash Point	24°F Closed Cup
Theoretical Coverage	454-476- ft/gal @ 1 mil dry
VHAP (lb.HAP/lb.solids)	0.6-0.72lb VHAP/lb solid
Photochemically Reactive	Yes
Coating Category	Clear

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Application Notes:

Tinting:

This product may be tinted with Opticolor XP colorants. **NEVER** tint with colorants that contain glycol. Maximum tint load is 12oz per gallon (10% by volume). Colorants must be mixed in completely with mechanical agitation before use. Choose the appropriate sheen from the series and agitate well before applying. While under agitation, catalyze the Urethane 2 parts urethane to 1 part CXC7004 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 3-5 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 5-6 coats at 3-4 wet mils per coat. Maximum film thickness of the total coating system **MUST NOT EXCEED** 8 dry mils.

Pot Life: 4-6 hours @77° F

Drying Time:

Dry to touch: 20-25 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.

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. 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.