

# LWS4750

# Zenith Waterborne Glaze Base



Date: August 31, 2017 (supersedes all previous revisions)



## GENERAL INFORMATION

Zenith™ Waterborne Glaze Base is a fast drying, interior glaze base that is specially formulated to highlight and enhance the natural beauty of all types of wood. It is a neutral base that is used to formulate custom color glazes using Axalta's Color Choice™ system. It has very little odor, and cleans up with water. This product is designed for professional use only. For Wood Substrates.



## 1. PRODUCTS

- LWS4750



## 2. MIXING RATIO

- Stir thoroughly, do not shake. If tinting, colorants must be mixed in with a shaker or mechanical agitation such as an air mixer or drill.



## 3. SHELF LIFE @ 77°F (25°C)

- 24 months from manufacturing date



## 4. CLEAN UP

- Clean equipment with warm water. If coating has dried, acetone may be required to remove dried film. Keep container closed when not in use to avoid skinning.

## 5. ADDITIVES

- Retarder: If needed to increase open time, use Zenith™ Waterborne Retarder YXT0700 at a rate of 1oz-2 oz per gal. (1-1.5% max.)\* . Max VOC after 1.5% addition of YXT0700 is 550 g/l.



## 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

- Zenith™ Waterborne Colorants
- Zenith™ Waterborne Lacquer
- Zenith™ Waterborne Precatalyzed Lacquer
- Zenith™ Waterborne Conversion Varnish
- Can also be used as a glaze with Valspar's solvent borne Lacquers, Precatalyzed Lacquers and Conversion Varnishes



## 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

- See application notes for details.



## 11. FLASH / DRY TIMES

AIR DRY @ 77°F (25°C)

Dry to touch	30-45 Minutes
Flash between coats	2-4 Hours
To Stack	



## 12. FORCE DRY

Flash	5-8 Minutes
Bake	15 Minutes @ 130°F
Cool Down	10 Minutes ambient
Stack	



## 13. GUN SET UP

Gravity Feed	1.6 mm - 1.8 mm
Siphon Feed	1.8 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	N/A
Weight Solids %	20.97%
Volume Solids %	17.44%
Actual VOC	1.52 lbs/gal of Product
VOC Ratio (lb.voc/lb.solids)	.82 (lbVOC/lb solid) <sup>1</sup>
Regulatory VOC (less water and exempt solvents)	515.15 g/l
Weight Per Gallon	8.77 lbs/gal <sup>1</sup>
Flash Point	210°F Closed Cup
Theoretical Coverage	279.82 ft <sup>2</sup> /gal @ 1 mil dry
VHAP (lb.HAP/lb.solids)	0.0 lb VHAP/lb solid
Photochemically Reactive	No
Coating Category	Clear

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### Application Notes:

#### Tinting:

This product is designed to be tinted with approved, high quality industrial waterborne colorants (check with your Axalta Distributor for approved colorants). Maximum tint capacity is 12 oz per gallon (9.4% by volume) in a short filled container. Maximum tint load if mixing a custom glaze from scratch is 19 oz per gallon (15% by volume). Colorants must be mixed in completely with mechanical agitation before use. Always test the glaze for appearance in an inconspicuous area (or scrap sample of the same type of wood) before using. Intermix containers of the same color. Stir well before use and frequently during use.

#### Seal the surface

When using this glaze, the substrate should first be sealed using a washcoat, sealer, or self-seal topcoat as the sealer. Let dry and sand the sealed surface with 280-320 grit stearated sandpaper before applying the glaze.

#### Apply the Glaze

Apply glaze by spray, brush or lint-free cloth. Apply an even, wet coat. Remove most of the glaze immediately with a clean cloth, leaving only enough to highlight cracks, crevasses, panel details, wormholes etc. Let dry completely before top coating. Glaze may also be worked with a brush to smooth and blend the effect. Do not rush dry times. Inadequate drying time or excessive application will affect adhesion. As with all glazing, Axalta recommends that sealing, sanding, glazing, and top coating all be completed the same day.

#### DRYING TIME:

Glaze is ready for top coating in approximately 2- 4 hours depending on application, temperature, humidity, and tint load.

For light to medium glaze applications @77° F-let dry at least 2 hours

Dries to touch in approximately 30-45 minutes.

Do not apply if the material or substrate temperature is below 60°F.

This product is best applied when surface, material, and air temperatures are between 60-100°F and when relative humidity is below 50% during application and drying time. Low temperatures, poor air circulation, or high humidity will extend dry times. Abnormal conditions of temperature or humidity may adversely affect product performance.

#### Clean Up:

Clean equipment with warm water. If coating has dried, acetone may be required to remove dried film. Keep container closed when not in use to avoid skinning. Do not transfer contents to other containers for storage or disposal. In case of spillage, absorb with inert material such as sand or kitty litter. Dispose of empty cans or unused portion in accordance with local state and federal regulations.

#### 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.