

# LWS4700

## Zenith Waterborne Powder Glaze Base

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



### GENERAL INFORMATION

Zenith™ Waterborne Powder Glaze Base is a unique glazing product used for creating antique looks and other special effects. It is a neutral base used for tinting custom colors with Valspar's Color Choice™ system. It is designed to be applied over a sealed and sanded surface, and then either wiped off while still wet, or removed with a Scotchbrite™ pad (or similar) after the glaze has dried to a powder. This glaze base must be top coated. It is fast drying, has very little odor, and cleans up with water.



### 1. PRODUCTS

- LWS4700



### 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. 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.



### 6. COMPANION PRODUCTS

- 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



### 7. TECH NOTES

- No thinning is recommended.



### 8. 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	15 Minutes
Flash between coats	30 Minutes
To Stack	



### 12. FORCE DRY

Flash	5 Minutes
Bake	5 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 %	19.57%
Volume Solids %	8.7%
Actual VOC	.12 lbs/gal of Product
VOC Ratio (lb.voc/lb.solids)	.07 (lbVOC/lb solid) <sup>1</sup>
Regulatory VOC (less water and exempt solvents)	142.63 g/l
Weight Per Gallon	9.45 lbs/gal <sup>1</sup>
Flash Point	299°F Closed Cup
Theoretical Coverage	139.61 ft/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 such as Zenith™ HP Waterborne colorants or Degussa 896 series. (check with your Axalta Distributor for other approved tints). Maximum tint load is 6% by volume (7.5 oz per gallon). Colorants must be mixed in completely with mechanical agitation before use.

### First-SEAL AND SAND THE SURFACE:

Zenith™ Waterborne Powder Glaze Base must be applied over a sealed surface using a washcoat, sealer, or self seal topcoat as the sealer. Sand the sealed surface with 280-320 grit steartated sandpaper. Never apply directly to bare wood.

### APPLICATION:

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. Glaze is best applied by spray but may be applied with a brush or cloth if needed.

### Wet Glaze Effect:

Apply an even, wet coat. While still wet, remove most of the glaze with a clean cloth, leaving only enough to highlight cracks, crevasses, panel details and wormholes. Fingerprints and smudges may be cleaned up using a damp water rag or a soft sanding sponge. **DO NOT LEAVE THIS PRODUCT ON THE SUBSTRATE WITHOUT REMOVING THE EXCESS.**

### Dry Glaze Effect:

Apply an even, wet coat. Let glaze dry to powder form and then remove to desired effect with a Scotchbrite™ pad (or similar). Do not leave an excessive amount of glaze on the surface. Using the pad, remove most of the glaze leaving only enough to highlight cracks, crevasses, wormholes and create light brush effects. Fingerprints and smudges may be cleaned up using a soft sanding sponge. **DO NOT LEAVE THIS PRODUCT ON THE SUBSTRATE WITHOUT REMOVING THE EXCESS.**

### DRYING TIME:

Dries to a powder in 10-20 minutes. This glaze can be topcoated in 30 minutes or whenever it has fully dried to powder form.

This product must be topcoated. Topcoat with Zenith™ Waterborne Lacquer, Zenith™ Waterborne Pre-Catalyzed lacquer, or Zenith™ Waterborne Conversion Varnish. As with all glazing, it is recommended that sanding, glazing, and topcoating all be completed the same day.

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.