

LWS2700

Zenith Low Solids Waterborne Spray Stain Base



Date: March 20, 2019 (supersedes all previous revisions)



GENERAL INFORMATION

Zenith™ Waterborne Spray Stain Base is a fast drying, direct-to-wood, low solids interior stain base that is specially formulated to highlight and enhance the natural beauty of all types of wood. This is a spray-no wipe stain base. Wiping is not necessary or recommended. This is a neutral base used to formulate custom color spray stains using approved colorants. It has very little odor, cleans up with water, and has minimal grain raise. This product is designed for professional application only.



1. PRODUCTS

- LWS2700



2. MIXING RATIO

- Before using, mix at slow to moderate speed until there is no material on the bottom of the container. 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 Colorants
- sGrainTone Plus Universal Dye Concentrates
- Zenith™ Waterborne Pre-Catalyzed Lacquer
- Zenith™ Waterborne Conversion Varnish



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

- Maximum tint load is 9 oz per gallon (7% by volume). Colorants must be mixed in completely with mechanical agitation before use. Always test the stain for appearance in an inconspicuous area (or scrap sample of the same type of wood) before using. Inter-mix containers of the same color. Stir well before use and frequently during use. Only one box coat is recommended. Apply stain by spray only. Apply an even, medium-wet coat, and let dry without wiping. Let dry completely before applying topcoat.



11. FLASH / DRY TIMES

AIR DRY @ 77°F (25°C)

Dry to touch	15 Minutes
Flash between coats	30-60 Minutes
To Stack	



12. FORCE DRY

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



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 %	8.87%
Volume Solids %	7.92%
Actual VOC	.03 lbs/gal of Product
VOC Ratio (lb.voc/lb.solids)	.04 (lbVOC/lb solid)
Regulatory VOC (less water and exempt solvents)	46.1 g/l
Weight Per Gallon	8.26 lbs/gal
Flash Point	1°F Closed Cup
Theoretical Coverage	127.0 ft ² /gal @ 1 mil dry
VHAP (lb.HAP/lb.solids)	0.0 lb VHAP/lb solid-HAPs
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.

Tinting:

This product is designed to be tinted with approved high quality industrial waterborne colorants such as Zenith™ Waterborne Colorants or Axalta's Grayscale Plus Universal Dye Concentrates (check with your Axalta Industrial Wood Distributor for other approved tints). Maximum tint load is 9 oz per gallon (7% by volume). Colorants must be mixed in completely with mechanical agitation before use. Always test the stain 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. Only one box coat is recommended. Apply stain by spray only. Apply an even, medium-wet coat, and let dry without wiping. Let dry completely before applying topcoat.

DRYING TIME:

Dries to touch in 15 minutes. Stains are dried for sealing in approximately 30-60 minutes depending on color and tint load.

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.

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.