

# VDS107X

## Graintone Plus™ Universal Dye Concentrates-HAPs Free

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



### GENERAL INFORMATION

Axalta's GRAINTONE Plus™ Universal Dye Concentrates are concentrated dye colorants used to tint both solvent and waterborne stain bases, sealers and topcoats. These universal dye colorants allow the user to create stains and specialty coatings in both solvent and waterborne products with superior transparency, clarity and depth of color. They are typically used to make NGR (Non-Grain Raising) stains which are used as a first step in a multi-step system. They can also be added to washcoats, sealers, and topcoats to make transparent toners/shaders. These universal dye concentrates are for tinting purposes only and are not designed to be used directly on wood without first adding to an approved stain or coating.



### 1. PRODUCTS

- VDS1071-Red
- VDS1072-Yellow
- VDS1073-Black
- VDS1074-Orange
- VDS1075-Blue
- VDS1076 - Brown



### 2. MIXING RATIO

- Stir thoroughly, do not shake



### 3. SHELF LIFE @ 77°F (25°C)

- 18 months unopened. These dye concentrates will increase in color strength if not properly sealed immediately after use.



### 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. 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

- YYT0013
- VSS0194
- Zenith™ waterborne clear stain bases
- All Valspar Wood Finishes solvent based clear sealers and topcoats
- YYT1009



### 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 detailed instructions



### 11. FLASH / DRY TIMES

AIR DRY @ 77°F (25°C)

Dry to touch	N/A
Flash between coats	N/A
To Stack	N/A



### 12. FORCE DRY

Flash	N/A
Bake	N/A
Cool Down	N/A
Stack	N/A



### 13. GUN SET UP

Gravity Feed	N/A
Siphon Feed	N/A
Airless	N/A
Air-Assisted Airless	N/A

### AIR PRESSURES

Gravity Feed	N/A
Siphon Feed	N/A
Air-Assisted Airless	N/A
See spray gun manufacturer data for more information	



### 14. PHYSICAL DATA

Viscosity	N/A
Weight Solids %	10.5 - 26.0%
Volume Solids %	10.5 - 26.0%
Actual VOC	3.5-4.2 lbs./gal
VOC Ratio (lb.voc/lb.solids)	0.84-1.08lb VOC/lb solid
Regulatory VOC (less water and exempt solvents)	476-520 g/l
Weight Per Gallon	8.2-9.2 lbs/gal
Flash Point	88-110°F Closed Cup
Theoretical Coverage	N/A
VHAP (lb.HAP/lb.solids)	0.0lb VHAP/lb solid
Photochemically Reactive	No
Coating Category	Stain

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### Application Notes:

#### General:

Always pre-test the system on your substrate to verify suitability of the application.

These dye concentrates are used to tint approved solvent, and water based Axalta Industrial Wood Finishes stain bases, sealers, and topcoats (see companion products section of this document).

Maximum recommended tint strength:

When tinting as a NGR stain:

YYT0013,YYT1009-10% by weight

LWS2700-10% by weight

When adding to a wiping stain to add color depth and dimension-LWS1000, LWS0750,VWS0680-10% by weight

When adding to a solvent based washcoat, sealer, or topcoat- 1-5% by weight

**NOTE:** These dye concentrates are NOT compatible with VWS0909, VWS055X, or VWS025X series stains or bases.

#### Drying Time:

Dry to touch: Refer to the Technical Data Sheet for the Product you are tinting

Dry to sand and recoat: Refer to the Technical Data Sheet for the Product you are tinting

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. 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.