



**SHERWIN
WILLIAMS.**

Chemical Coatings

CC-F40

SHER-WOOD®

Universal Dye Concentrates

Black	S61B500	Red	S61R503
Orange	S61E501	Bordeaux	S61R506
Blue	S61L505	Yellow	S61Y504
Brown	S61N502		

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>SPECIFICATIONS</u>
<p>SHER-WOOD® Universal Dye Concentrates are ultra high strength monochromatic dye solutions designed for formulating a variety of coloring systems for interior wood. Universal Dye Concentrates can be used to make solvent and water dye type stains, dye toners, shade stains and water reducible dye wiping stains.</p> <p>Advantages:</p> <ul style="list-style-type: none"> • Ultra Strong - at least 10 times stronger than conventional dye stains they replaced • HAPS free • Reducible with a variety of solvents and with water • A color pallette of seven bright clean colors which makes all color matches possible • Blendable with the water reducible wipe stain line to make dye or dye/pigmented wiping stains • Excellent light fastness and fade resistance • Can be used under all Sher-Wood solvent and water based clears • Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II: Subchapter B, part 1303. 	<p>Drying (77°F, 50% RH)</p> <p>To Touch: 10-20 minutes To Recoat: 30 minutes with same solvent topcoats</p> <p>Force Dry: 5-10 min. at 120-140°F</p> <p>Note: Drying is dependent upon the reducer used and the environment where the product is being applied.</p> <p>Package Life: 3 years, unopened Flash Point: 93-118°F Pensky-Martens Closed Cup</p> <p>Air Quality Data: Non-photochemically reactive Volatile Organic Compounds (VOC) as packaged, maximum 7.2 lb/gal, 864 g/L reduced 500% with water, maximum 7.2 lb/gal, 864 g/L</p> <p>Volatile Organic Emissions as packaged, maximum 7.2 lb/gal, 864 g/L reduced 500% with water, maximum 1.4 lb/gal, 168 g/L</p> <p>Hazardous Air Pollutants (HAPS) as packaged, HAPS Free</p> <p>Contains chromium compounds.</p> <p>An Environmental Data Sheet is available from your local Sherwin-Williams facility.</p>	<p>Wood (interior only): Must be clean, dry, and finish sanded. Substrate should be free of grease, oil, dirt, fingerprints, and any contamination to ensure optimum adhesion and coating performance properties. Moisture content of wood should be 6 to 8%.</p> <p>General Reduction Guidelines: Make a ready-to-use dye stain by blending dye concentrate to the desired color and reduce with desired reducer. Reductions of 500-1500% (1 part stain to 5 to 15 parts of reducer) are recommended depending on color depth desired, wood type and the amount of penetration desired.</p> <ul style="list-style-type: none"> • Water - (HAPS Free - No VOC) slow reducer • Ethanol R6K21 - (HAPS Free) reducer for dye stains • PM Reducer R6K34 - (HAPS Free) is a medium speed retarder • Propylene Glycol - (HAPS Free) very slow retarder • Methanol R6K1 - reducer for non-complying applications • Butyl Cellosolve R6K25 - slow retarder for non-complying applications • Acetone R6K9 - (HAPS Free - No VOC) very fast reducer. Total mixture requires 20% PM Reducer for best solubility. <p>The listed solvents can be blended in all proportions to adjust dye penetration and drying.</p> <p>PM Reducer R6K34 is Methoxypropanol which is the principal solvent in these concentrates. Should precipitation occur in the reduced blend, spike or increase the concentration of Methoxypropanol in the mixture.</p> <p>Testing: Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application.</p>

APPLICATION

Typical Setups

May be applied by:

Conventional Spray
HVLP
Dip
Airless
Air Assisted Airless

Use lower air pressure for application of dye. Also start with a low level of fluid delivery to control the depth and uniformity of appearance.

Spray a full wet coat and allow to dry as required before applying sealer or other wood finishing products.

If a filler or wiping stain is to be used, a washcoat should be applied directly over the dye stain. Make the washcoat by reducing the topcoat 400% with the recommended solvent.

Sher-Wood Universal Dye Concentrates may be added to Water Reducible Wiping Stains to make richer, brighter, and deeper color wiping stains and to enhance grain and wood pore definition.

Cleanup:

Clean tools/equipment immediately after use with the reducing solvent .
Flush equipment with solvent to prevent rusting.
Follow manufacturer's safety recommendations when using any solvent.

SPECIFICATIONS

Product Limitations:

- Not intended for exterior use.
- Unstained wood and dyed wood will change color over time, especially when exposed to high intensity light sources and direct sunlight. For improved system light stability overcoat dyes with pigmented toners, wipe stains, or fillers.
- Dye stains must be recoated with sealer and topcoat that will be used in the total system to accurately evaluate final color. Different clear coats (sealers and topcoats) containing different solvent systems will wet out dyes differently - pretest the system.
- Do not use with Ultra-Violet curing systems.
- The shade and depth of color will vary with reduction, application and the type of wood.
- After the addition of water for dilution and reduction, these dye stains must be packaged in lined metal or plastic containers to prevent rusting
- These stains may show a foaming tendency after reduction with water. This is due to surface tension. Add up to 5% Sher-Wood HAPS Complying Dye Stain Reducer R6K21 or Ethanol to overcome foaming. Non-silicone containing defoamer will also work.
- To maintain HAPS compliance only reduce with HAPS compliant reducers.

CAUTIONS

Thoroughly review product label for safety and cautions prior to using this product. A Material Safety Data Sheet is available from your local Sherwin-Williams facility. Please direct any questions or comments to your local Sherwin-Williams facility.

CAUTIONS

SEE CONTENTS STATEMENT ON LABEL.

Contents are FLAMMABLE. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application, unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

FIRST AID: If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Call Poison Control Center, hospital emergency room, or physician immediately.

SPILL AND WASTE: Remove all sources of ignition. Ventilate and remove with inert absorbent. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.

Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

FOR INDUSTRIAL USE ONLY.

SEE MATERIAL SAFETY DATA SHEET.21360-100402.

Note: Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the customer obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application which are not known or under our control, The Sherwin-Williams Company cannot make any warranties as to the end result.