



emtech™

Water Based Coatings for a Changing World™

USH3000 SERIES ULTRA SEAL-WB SHELLAC SEALER

Leed Credit ID: EQ4.1, EQ4.2, EQ4.5

OTC & SCAQMD VOC Compliant **No NMP, No Hydrazine Means USH3000 is** **California Prop. 65 Compliant**

Target Coatings **UltraSeal-WB** is a water-based dewaxed amber shellac dispersion designed to function as a penetrating sealer and color enhancer for use on new wood construction and reclaim/restoration applications. UltraSeal-WB is made from the highest grade of dewaxed amber shellac available, dispersed into a water phase through our unique Emulsion Technology Chemistries (EmTech™) process.

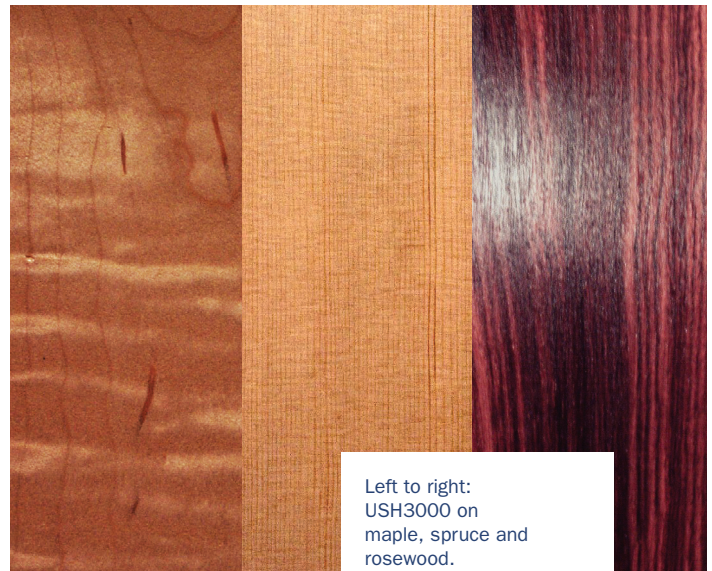
Recommended Use

UltraSeal-WB can be used on all interior wood surfaces that require undercoat conditioning, pre-stain sealing or sanding sealer applications. UltraSeal-WB is compatible for use with all water-based lacquers, urethanes and latex paints. UltraSeal-WB demonstrates excellent bonding properties when used as a tie-coat between oil-based stains, glazes and topcoats. UltraSeal-WB can be tinted with a wide range of water-soluble aniline dyes and universal pigments.

Directions for Use

All surfaces to be finished must be clean, dry and free of excess contamination. Proper surface preparation is the key to a successful finish. The following procedures will help to ensure a quality finish:

Pre-Stain Conditioner: Reduce **UltraSeal-WB** 25% by liquid volume with water to allow for deeper penetration into the wood substrate in order to control blotching and inconsistent color control during stain or dye applications. Sand surface to be conditioned with 220-grit or finer sandpaper to tighten grain. Apply 1 coat of reduced conditioner. Allow to dry for 45 minutes to 1 hour before fine sanding with 320-grit sandpaper and evaluating for color coat application.



Left to right:
USH3000 on
maple, spruce and
rosewood.

*Photo Courtesy of
Target Coatings.*



Sanding Sealer: Use **UltraSeal-WB** undiluted to act as a traditional shellac sanding sealer on all types of domestic and exotic wood species. The unique properties of the dewaxed shellac resin within UltraSeal-WB will produce a depth-of-image and color tone generation identical to alcohol cut shellac. Sand wood substrate with 220 or 320-grit sandpaper based on grain density and porosity of wood being sealed. Apply 1 coat of undiluted UltraSeal-WB via brush, spray or wipe application (see Application Methods). The first coat of UltraSeal-WB will penetrate and dry to the touch within 15-20 minutes. Allow to dry for 45 minutes to 1 hour before fine sanding and evaluating for color coat application.



Application Methods

Brush Applications: UltraSeal-WB can be brush applied with any quality synthetic bristle brush. It is preferred that a short length bristle brush is used for best product control. Foam brushes are not recommended. Apply by evenly brushing UltraSeal-WB over prepared surface. Overlap wet film by 10% to maintain a wet edge for better layout. Do not over-brush material. Avoid brushing onto tacky surfaces. Allow air and brush strokes to settle into the drying film formation. UltraSeal-WB can be retarded with Target SA5 Retarder[™] to help slow the wet-edge set time for better control when brushing large areas. After each use wash brush with warm, soapy water, then rinse with fresh water and allow to air dry.

Wipe-On Applications: Lightly dampened a folded length of lint-free cotton cloth or gauze with water and wring until water is removed. Pour UltraSeal-WB into cloth pad to load with a workable amount of material. Wipe UltraSeal-WB in the direction of grain pattern, over-lapping by 50%. Reload cloth pad with material before pad begins to drag or feel dry. Only reapply UltraSeal-WB when the last coat has thoroughly dried. UltraSeal-WB can be retarded with Target SA5 Retarder[™] to help slow the wet-edge set time for better control when wiping large areas. Do not apply over tacky surfaces. Thoroughly wash cloth with warm, soapy water, and then rinse with clear water before reusing.

Spray Applications: UltraSeal-WB can be spray applied with a variety of compressed air, turbine and airless spray gun systems. Consult with your spray equipment manufacturer for the best spray gun configurations.

Physical Specifications

Coating Density: 8.5 lbs./Gal.
Solids % by Weight: 20%nv
VOC Content Actual: 41 Grams/Liter
VOC Content Regulatory: 90 Grams/Liter
HAPS Content: 0.0
pH: 7.5 – 8.0
Viscosity: 18 Sec Zahns #2 Cup
Dry Time: 30-45 minutes @ 3mils wet
Spread Rate: 400sq ft. per Gallon @ 3milC
Appearance: Thin amber liquid
Flash Point: Above 200°F
Shelf-Life: 24+ Months

Features and Benefits

Amber dewaxed shellac look and feel
Low sandpaper loading
Ultra Low VOC
HAPs Free
SCAQMD Regional Compliant
USEPA AIM National VOC Compliant
LEED Credit Compliant
100% Burn-In Technology
Multiple Substrate Adhesion Performance
Fast Dry/Recoat Time
Water Clean Up
Non-Hazardous/Non-Flammable



Spray Gun Set Up Recommendations *

Compressed Air HVLP	1.3mm needle set and corresponding air cap.
Air-Assisted Airless	.09 - .11 tip set
Airless	Ultra-Fine tip set

**Consult with spray gun manufacturer for specific air pressure settings.*

Application Specifications

UltraSeal-WB can be applied in temperatures ranging from 45°F (7°C) to 120°F (49°C) with humidity ranging from 20% to 100%. Ideal application conditions of 70°F (21°C) 50% RH is recommended. At this temperature/humidity level UltraSeal-WB will dry to the touch within 20 minutes at a film thickness of 2 mils wet. Depending on porosity and condition of the substrate sanding of the dried coat can commence within 45 minutes to 1 hour of set time.

Clean Up

UltraSeal-WB[™] cleans with warm, fresh water and mild detergent. No Alcohol or ammonia is required. Thoroughly rinse all brushes, spray equipment and rags with a water/detergent solution, then final rinse with basic tap water.

Emergency First-Aid Procedures

Ingestion:

Administer large volumes of water. Induce vomiting. SEEK IMMEDIATE MEDICAL ATTENTION.

Inhalation:

Remove exposed person(s) to well ventilated area.
Treat symptomatically.

Eyes:

Flush with fresh water.
Seek medical attention.

Skin:

Flush with fresh water.
Seek medical attention if irritation persists.

Use only in well ventilated areas. Avoid inhaling spray mist. Wear a NIOSH/MSHA approved respirator during spray applications.