



DIVISION 9 ENGINEERED-TO-ORDER WOOD CEILINGS

LEED Information

Date: December 28, 2016
Project: 14055.Webster U - Interdisciplinary Science Bldg
Product(s): Sku's 1400, 1400 Wall, 0113, 0119
CC: Allison Boss

Below is a list of LEED credit opportunities. The checked "Yes/No" boxes denote which credit opportunities that your product assembly qualifies toward. If your project has multiple product assembly types, you will receive multiple LEED information sheets.

Project-specific harvest locations and FSC Mix percentages (if applicable) are provided once material is released to production. Please see the third party collateral (datasheets) included in this packet, which provides more info about each raw material. If your project is under the LEED v4, Living Building Challenge or another rating system, please contact your Project Coordinator.

Yes No

- | | | |
|-------------------------------------|-------------------------------------|--|
| ☒ | ☐ | MRc4 Recycled Content <ul style="list-style-type: none">The particleboard core makes up 90% of the product <i>assembly volume</i>. The remaining 10% of the volume is the face and backing veneers, edgebanding and endbanding.The <i>particleboard core</i> is composed of >99% pre-consumer recycled content and <1% post-consumer content. This means that the 9Wood <i>assembly volume</i> is 89% pre-consumer recycled content; <1% post-consumer. The remaining 10% is made of veneers, backers, and scrims (not recycled).Please see the attached substrate data sheets by <u>Arauco</u>. |
| ☐ | ☒ | MRc5 Regional Materials <ul style="list-style-type: none">It is anticipated that a portion of the product will be harvested and manufactured within a 500 mile radius of the project site. will be provided upon release to production.All products are manufactured in Springfield, Oregon, USA. |
| ☐ | ☒ | MRc7 Certified Wood <p>Please see the attached 9Wood Chain-of-Custody Certificate (COC). The actual FSC Mix % and material value(s) will be noted on the final invoice.</p> |
| ☒ | ☐ | IEQc4.2 Low-Emitting Materials/Finishes <p>Low VOC finish is provided for on-site touch-up. Please see the <u>Rudd</u> datasheet.</p> |
| ☒ | ☐ | IEQc4.4 Low-Emitting Materials/Composite Wood and Agrifiber Products <p>The substrates use Ultra-Low Emitting Formaldehyde (ULEF) binders and adhesives. Please see the attached datasheets by <u>Arauco, States Industries</u>.</p> |

Please direct all questions to your Project Coordinator.

Best regards,

Michael Roemen (LEED Green Associate™)
Sust. Info. Mgr.

Duraflake Fire-Rated* is a UL approved Class A/Class 1 fire-rated particleboard panel. This nationally recognized fire-rated panel is classified by Underwriters Laboratories for surface burning characteristics using the UL 723 Test Method. Panels are retardant throughout, stay classified after cutting and have a wide range of sizes available.

***Fire-Rated** products manufactured in Albany, OR are available in widths up to 5ft. and products manufactured in St. Stephen, NB are available in widths up to 4 ft.

DURAFLAKE FIRE-RATED							
		Albany, OR			St. Stephen, NB		
Thickness Range	(in./mm)	3/8" - 15mm	5/8" - 3/4"	13/16" - 1 1/2"	3/8" - 7/16" 9.525 - 11.11mm	1/2" - 9/16" 12.7 - 14.29mm	5/8" - 3/4" 15.875 - 19.05mm
Average MOR	(psi)	1,600	1,600	1,600	1,813	1,813	1,813
Average MOE	(psi)	325,000	325,000	300,000	246,600	246,600	246,600
Average Internal Bond	(psi)	75	75	60	58	58	58
Face Screw Hold	(lb)	240	240	240	180	180	180
Edge Screw Hold	(lb)	NA	190	175	157	157	157
Thickness Tolerance	(in.)	+/- .005	+/- .005	+/- .005	+/- .005	+/- .005	+/- .005
Linear Expansion	%	0.40	0.40	0.35	-	-	-
Length and Width	(in.)	+/- 1/16	+/- 1/16	+/- 1/16	+/- 1/16	+/- 1/16	+/- 1/16
Square	(in.)	+/- 1/8	+/- 1/8	+/- 1/8	+/- 1/8	+/- 1/8	+/- 1/8

- The above physical properties are based on minimum allowable averages of individual production lots. Testing for conformance to the above specifications must be done in accordance with procedures described in the American National Standard for Particleboard (ANSI A208.2-2009 section 5.2 Sampling for Acceptance).
- Complies with formaldehyde emission requirements for Particleboard in CPA-ECC-2011, ANSI A208.1-2009 and CCR 93120.2 (CARB Composite Wood ATCM Phase II).
- All panels are approved for interior, non-structural application.
- Contains 100% Recycled/Recovered wood content.

Applicable Standard Tests

- ASTM E 84 Standard Test for Surface Burning Characteristics of Building Materials.
- ASTM C 236 Guarded Hot Box Test.
- UL 723 Test for Surface Burning Characteristics of Building Materials.
- CAN/ULC - S102 Test for Surface Burning Characteristics of Building Materials.

California Proposition 65 Requirement:

Warning: Drilling, sawing, sanding or machining wood products generates wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection.

Usage Notes:

Some laminates applied to Duraflake® FR particleboard may change the flame spread rating. Standard available woodworking glues have been successfully used in lamination. However, some adhesives may have compatibility problems with the chemical system used to manufacture Duraflake® FR particleboard. Any adhesive should be tested for compatibility with the chemical system in Duraflake® FR particleboard prior to full-scale gluing. Questions should be directed to the glue supplier. When using Duraflake® FR particleboard in wall systems, an integral vapor barrier must be a properly installed component of the wall in any of the following conditions: the wall has an exterior side and the wall separates spaces conditioned unequally. Joints between panels to be designed to accommodate movement of up to .40 percent. Splined or articulated joints for reveals per AWI Section 500, 500A-G-4 "Joints and Transitions" or similar is suggested. Wood veneers and other laminates should be tested for compatibility with Duraflake® FR particleboard prior to use. Some wood veneers, laminates, and other types of products may have reactions to surface coatings and finishes, glues, pressing temperatures, moisture, contaminants, the chemical systems used to manufacture FR particleboard products, the failure to use UV inhibitors, or due to other causes. Reactions may include discoloration to veneer or laminate. ARAUCO is not responsible for discoloration or for claims associated with discoloration. Please contact your Sales Representative for more information.

Building Codes

- ICC – International Code Council – 2009 International Fire Code.
- NFPA – National Fire Protection Association - NFPA 101 Life Safety Code - NFPA 5000 Building Construction Safety Code.

Storage and Handling

Particleboard products made by ARAUCO should never be stored or used outdoors. The indoor storage area should be clean, dry, well ventilated, and free of dust, dirt or particles that could contaminate the particleboard. Store flat on stickers on a level, hard, dry surface. Constant relative humidity and temperature should be maintained. Before use, allow to stabilize to the same conditions as are expected after the panel is installed. Condition 48 to 72 hours prior to lamination. For more information, see Composite Panels Association Technical Bulletin: Storage and Handling of Particleboard and MDF.



Elemental—

All soy. No formaldehyde.

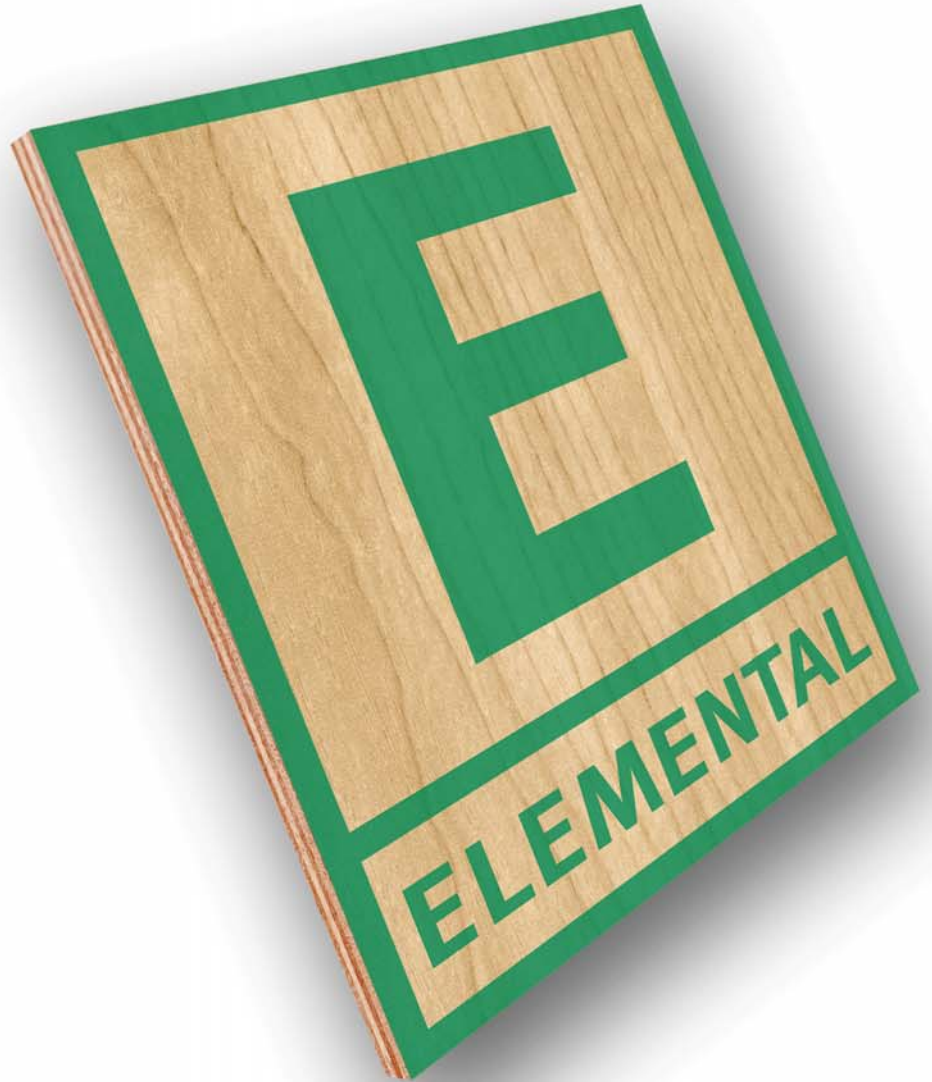
Elemental is your mark of assurance that hardwood plywood from States Industries meets the most rigorous standards for indoor air quality.

States total commitment to soy based adhesives means that all veneer cored panels are free from formaldehyde resins and are designated NAF for No-Added-Formaldehyde.

Non-veneer substrates like Particleboard or Medium Density Fiberboard (MDF) that carry the Elemental brand are No Added Urea Formaldehyde.

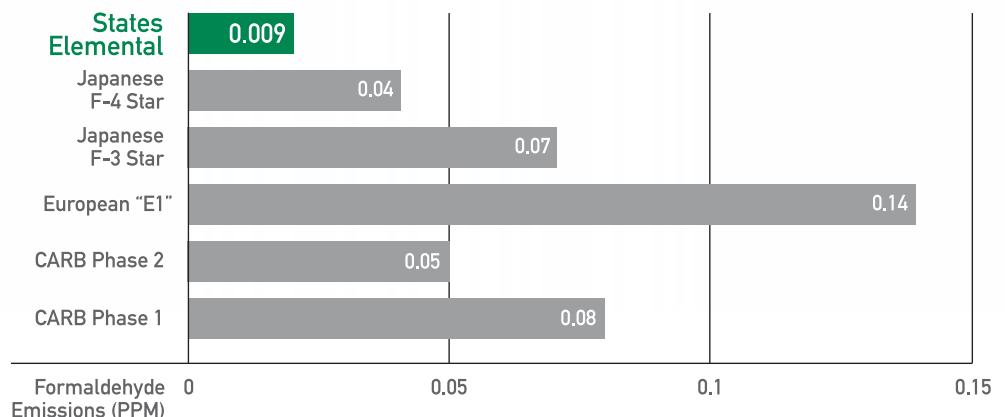
Our Elemental panels exceed CARB Phase II standards and contribute to the US Green Building Council's LEED IEQ Credit 4.4: Low Emitting Materials.

No other panel manufacturer can document a lower average reading. The 0.009 PPM reading shown in the graph on this page represents trace levels of naturally occurring formaldehyde in the wood fiber itself.



Elemental veneer cored panels tested 75% lower in formaldehyde emissions than the lowest international formaldehyde standard.

Elemental cored panels compared with the lowest international formaldehyde standards



This graph represents the relationship between current, global formaldehyde standards and States Industries' soy bonded, veneer cored product. Test data represents a one year average.



"Where you stand is not as important as where you're headed."

—Oliver Wendell Holmes

These words guide our efforts every day, as we continue to develop high-quality, innovative, and environmentally responsible products for the industry.

Elemental—

A quality panel with the right elements for our environment

States Industries knows from experience that when manufacturing a quality hardwood panel, the elements you leave out are as important as the elements you put in. That's why, in 2008, States introduced **Elemental** as the first soy-bonded hardwood panels with no urea formaldehyde.

Veneer cored panels from States Industries with the Elemental mark are fabricated from the finest woods available without any formaldehyde resins. Elemental products requiring MDF or particleboard substrates have no added urea formaldehyde. All of these panels exceed CARB and USGBC LEED criteria.

States' commitment to the environment took hold close to fifty years ago when we began converting wood waste as an energy source for use in our manufacturing process. As shown below, our early initiatives grew, and will continue into the future as the leading principles of our environmental responsibilities to our community and our customers.



A commitment to green principles and products

One of our earliest environmental efforts was converting wood waste to create energy.

1966

Introduced NOVA UV finished hardwood plywood. First ultraviolet flatline finishing facility.

1993

Received Sustainable Forestry Institute Certificate.

2004

Accomplished our goal of sourcing a formaldehyde free adhesive.

2004

Qualified for and installed a high efficiency lighting retrofit, gaining energy savings and reducing pollution.

2012

CARB EXEMPTION earned for virtually ALL products produced.

2014

1992

Became the first production panel manufacturer to be FSC® certified.

2003

Began sponsorship of a college intern program with the College of Forestry and Renewable Materials Department at Oregon State University.

2005

Introduced formal Lean Manufacturing program for eliminating waste, fostering creative problem solving and developing added value.

2008

Shipped the first soy-bonded NAF Elemental panels



2012

Accomplished 100% conversion to a soy-based resin adhesive containing no formaldehyde. Soyad™ adhesives are:

- Formaldehyde free
- CARB phase 2 exempt
- LEED compliant



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**SHERWIN
WILLIAMS.**

Chemical Coatings

CC-F53

SHER-WOOD® Fast Dry Vinyl Sealer

Clear T67F6

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS														
SHER-WOOD® Fast Dry Vinyl Sealer is a vinyl modified nitrocellulose sanding sealer with fast dry and good sanding characteristics. Advantages: • HAPS Free as packaged** • VOC compliant* • Fast dry to sand and recoat • Meets KCMA requirements with solvent based Sher-Wood® finishing top coats listed below. • Precat feature - 6 month catalyzed potlife option • Improved moisture resistance as compared to standard nitrocellulose sealers • May be tinted with Chroma Chem 844 Colorants up to 2 oz. per gallon • Compatible with a wide range of topcoats, including: Sher-Wood® Hi-Bild Lacquer Sher-Wood® LOVOC Lacquer Sher-Wood® CAB Acrylic Sher-Wood® White CAB-Acrylic Lacquer Sher-Wood® Moisture Resistant Lacquer Sher-Wood® Catalyzed Lacquer (PreCat) Sher-Wood® Catalyzed Lacquer Sher-Wood® Hi-Bild PreCat Lacquer Sher-Wood® Acrylic Conversion Coating Sher-Wood® KemVar® Conversion Varnish Sher-Wood® Water White Conversion Varnish Sher-Wood® KemVar® LF • Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II: Subchapter B, part 1303. *VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations. **National Standards for Hazardous Air Pollutants (HAPS) Emissions for Wood Furniture Manufacturing Operations CFR40, Part 63, Subpart JJ	Gloss: Flat (5-10 units) Volume Solids: 14.7% Viscosity: 20-24 seconds #2 Zahn Cup Recommended film thickness: <table><tr><td>Mils Wet</td><td>4.0-5.0</td></tr><tr><td>Mils Dry</td><td>0.6-0.7</td></tr></table> Spreading Rate (no application loss) 314-420 sq ft/gal @ 0.6-0.7 mils DFT Drying (77°F, 50% RH): <table><tr><td>To Touch:</td><td>5-10 minutes</td></tr><tr><td>To Handle:</td><td>10-15 minutes</td></tr><tr><td>To Sand:</td><td>15-30 minutes</td></tr><tr><td>To Recoat:</td><td>15-30 minutes</td></tr><tr><td>Force Dry:</td><td>5-10 minutes at 110-140°F to sand</td></tr></table> Flash Point: 4°F Pensky-Martens Closed Cup Package Life: 24 months, unopened Air Quality Data: (Theoretical) Non-photochemically reactive Volatile Organic Compounds (VOC) as packaged, maximum 4.54 lb/gal, 544 g/L Hazardous Air Pollutants (HAPS) as packaged, maximum 0.0 lbs per lb of solids An Environmental Data Sheet is available from your local Sherwin-Williams facility.	Mils Wet	4.0-5.0	Mils Dry	0.6-0.7	To Touch:	5-10 minutes	To Handle:	10-15 minutes	To Sand:	15-30 minutes	To Recoat:	15-30 minutes	Force Dry:	5-10 minutes at 110-140°F to sand	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%. T67F6 MUST BE AGITATED BEFORE AND DURING USE. Catalyzation of Vinyl Sealer T67F6: Sher-Wood® Fast Dry Vinyl Sealer, T67F6, must be catalyzed when the topcoat is a catalyzed product. Catalyzing the sealer will give improved resistance to wrinkling, lifting and critical recoat with catalyzed topcoats. Catalyze T67F6 with 1.2% V66V22 Sher-Wood® Precat Catalyst. This is equivalent to 1.5 ounces V66V22 Catalyst to 1.0 gallon T67F6 sealer. This mixture provides a catalyzed product with 6 months potlife. Higher temperature, humidity, or aeration will shorten the working potlife. Testing: Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.
Mils Wet	4.0-5.0															
Mils Dry	0.6-0.7															
To Touch:	5-10 minutes															
To Handle:	10-15 minutes															
To Sand:	15-30 minutes															
To Recoat:	15-30 minutes															
Force Dry:	5-10 minutes at 110-140°F to sand															

APPLICATION

Typical Setups

Reduction: T67F6 is packaged at a ready-to-spray viscosity for many applications. To maintain 4.57 lbs/gal VOC compliance, reduce with Acetone R6K9, and retard with Oxsol 100. Where VOC compliance is not required, reduce 5-20% with HAPS Free Lacquer Thinner R7K305, HAPS Compliant Lacquer Thinner R7K320, or n-Butyl Acetate R6K18, and retard 5-10% with Butyl Cellosolve R6K25, MAK R6K30, or EEP Reducer R6K35.

Conventional Spray:

Air Pressure 55 psi
Fluid Pressure 8-10 psi
Tip Size040-.070

Airless Spray:

Pressure 1500-2000 psi
Tip011-.013"

Air Assisted Airless:

Air Assist 20-25 psi
Fluid Pressure 700-800 psi
Tip011-.013"

HVLP:

Atomizing Air Pressure at the cap.. 8-10 psi
Fluid Pressure 8-10 psi
Tip Size040-.070

Cleanup:

Clean tools/equipment immediately after use with HAPS complying lacquer thinner, R7K320. Lacquer thinner R7K120 or R7K22 may also be used, but are not HAPS compliant.

Follow manufacturer's safety recommendations when using any solvent.

SPECIFICATIONS

Product Limitations:

- **Must be agitated before and during use.**
- Customers are urged to pretest T67F6 and the total system on their substrate under their shop conditions.
- Apply a full wet coat (3.0-4.0 mils) of vinyl sealer. Do not apply more than one coat of sealer for build. Multiple coats of topcoat are recommended rather than multiple coats of sealer.
- Do not catalyze this sealer if the topcoat is not catalyzed.
- Do not catalyze T67F6 with either Super KemVar® Catalyst V66V26 or KemVar® Catalyst V66V21 as these may affect performance properties of the system.
- T67F6 must be agitated before and while using.
- T67F6 contains nitrocellulose and is not compatible for blending (intermixing) with conventional vinyl products T67F3, P63W2, and P63 Basecoats.
- This product should be thoroughly sanded within 4 hours of being applied. If the sealer is not topcoated the same day, it should be resanded immediately before topcoating to insure optimum intercoat adhesion.
- T67F6 contains fast evaporating solvent. Keep product covered.
- To maintain HAPS compliance, only reduce with HAPS compliant reducers.
- To maintain VOC compliance, only use exempt solvents - reduce with Acetone R6K9 and retard with Oxsol 100.
- For optimum dry film properties, the coating film should be at a temperature of 60° F or above. Allowing the coating to dry at cooler temperatures may affect the final dry film quality.

CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION

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.

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.



Product Finishes

CC-F57 SHER-WOOD® Hi-Bild PreCat Lacquer

Gloss.....	T77C55
Bright Rubbed Effect	T77F56
Medium Rubbed Effect.....	T77F57
Dull Rubbed Effect.....	T77F58
Catalyst.....	V66V3

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS																												
Sher-Wood® Hi-Bild PreCat Lacquer is a fast drying, high performance, clear, conversion lacquer designed for the Kitchen and Bath Cabinetry and General Wood Finishing markets. After catalyzation it provides a 4 month pot life. Advantages: • 20% higher volume solids than traditional PreCat lacquers. • Meets (KCMA) specifications as a self sealed system or over catalyzed Sher-Wood Vinyl Sealers, T67F3, T67F5 or T67F6. • HAPS Free as packaged. • Fast dry to sanding and packing. • Contains UV absorber to significantly reduce the discoloration of natural wood from exposure to sunlight. • Good resistance to household chemicals. • Good flexibility – passes 20 KCMA cold check cycles. • Versatile application – may be applied by conventional, airless, air-assisted airless spray. • Pale water white color. • Ideal for kitchen cabinets, vanities, chairs, office furniture, household furniture • Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II: Subchapter B, Part 1303.	Gloss (measured on black glass): <table><tr><td>Gloss</td><td>85+ units</td></tr><tr><td>BRE</td><td>55-59 units</td></tr><tr><td>MRE</td><td>30-34 units</td></tr><tr><td>DRE</td><td>17-21 units</td></tr></table> Volume Solids: 25 ± 2% Weight Solids: 33 ± 2% Viscosity: 25-30 seconds #2 Zahn Cup Recommended film thickness: <table><tr><td>Mils Wet</td><td>3.0 - 5.0</td></tr><tr><td>Mils Dry</td><td>0.75 - 1.25</td></tr></table> Maximum dry film thickness of the total system should not exceed 4.0 mils Spreading Rate (no application loss) 295-577 sq ft/gal @ 0.75-1.25 mil DFT Drying (77°F, 50% RH): <table><tr><td>To Touch:</td><td>10 - 15 minutes</td></tr><tr><td>To Handle:</td><td>15 - 20 minutes</td></tr><tr><td>To Sand:</td><td>30 - 45 minutes</td></tr><tr><td>To Recoat/Topcoat:</td><td>30 - 45 minutes</td></tr><tr><td>To Pack:</td><td>8 hour minimum</td></tr><tr><td>Force Dry:</td><td>5 - 10 minutes at 110 - 140°F, then air dry 1 hour minimum to pack</td></tr></table> 4°F Pensky-Martens Closed Cup Flash Point: Mixing Ratio: <table><tr><td>1 gallon</td><td>Lacquer</td></tr><tr><td>3.0 ounces</td><td>Catalyst V66V3</td></tr></table> Pot Life: 4 months Package Life: Uncatalyzed 2 years, unopened Catalyzed 4 months Air Quality Data: (Theoretical) • Non-photochemically reactive • Volatile Organic Compounds (VOC) as packaged, maximum 5.42 lb/gal, 649 g/L, 2.38 lbs VOC/lb solids • Hazardous Air Pollutants (HAPS) as packaged, No Reportable HAPS An Environmental Data Sheet is available from your local Sherwin-Williams facility.	Gloss	85+ units	BRE	55-59 units	MRE	30-34 units	DRE	17-21 units	Mils Wet	3.0 - 5.0	Mils Dry	0.75 - 1.25	To Touch:	10 - 15 minutes	To Handle:	15 - 20 minutes	To Sand:	30 - 45 minutes	To Recoat/Topcoat:	30 - 45 minutes	To Pack:	8 hour minimum	Force Dry:	5 - 10 minutes at 110 - 140°F, then air dry 1 hour minimum to pack	1 gallon	Lacquer	3.0 ounces	Catalyst V66V3	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%. Wood Finishing System: THIS PRODUCT MUST BE CATALYZED. 1. Color Wood - Stain or tone as desired and dry thoroughly. 2. Seal - Apply Sher-Wood Hi-Bild Pre-Cat Lacquer as a sealer or seal with catalyzed Sher-Wood Vinyl Sealers, T67F3, T67F5 or T67F6. (Consult corresponding data page for details). Spray a full wet coat. Air Dry 30 - 45 minutes. 3. Sand - Sand with 240 grit or equivalent. Remove sanding dust. 4. Topcoat - Spray a full wet coat of Sher-Wood Hi-Bild PreCat Lacquer at 3.0 - 5.0 mils wet. 5. For more depth or build, apply an additional coat. Do not exceed 4.0 mils DFT for the total system. Testing: Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.
Gloss	85+ units																													
BRE	55-59 units																													
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1 gallon	Lacquer																													
3.0 ounces	Catalyst V66V3																													

APPLICATION

Typical Setups

THIS PRODUCT MUST BE CATALYZED DETERMINE IF IT HAS BEEN CATALYZED. If not catalyzed, add 2.3% (3.0 oz/gal) Sher-Wood Hi-Bild PreCat Catalyst, V66V3. Potlife after catalyzation is 4 months. Record the catalyzation date on the container.

Reduction: Product is normally applied without reduction. If reduction is needed to optimize application, use 5 - 10% HAPS Compliant Lacquer Thinner, R7K320, R7K305 or Acetone. Lacquer Thinner K120 or K22 may also be used, but are not HAPS compliant. Product can be retarded with MAK, EEP or Butyl Cellosolve.

Conventional Spray:

Air Pressure.....35 - 60 psi
Fluid Pressure6 - 10 psi
Cap/Tip.....797

Airless Spray:

Pressure1500 - 1800 psi
Tip......011 - .013"

Air Assisted Airless:

Air Pressure.....20 - 30 psi
Fluid Pressure500 - 900 psi
Cap/Tip......011 - .013

HVLP:

Gun.....Binks Mach 1
Atomizing Air Pressure at the cap.....9 psi
Fluid Pressure12 psi
Cap/Tip.....97AP Blue Max/94

Cleanup:

Clean tools/equipment immediately after use with HAPS complying Lacquer Thinner, R7K320 . Lacquer Thinner K120 or K22 may also be used, but are not HAPS compliant.

Follow manufacturer's safety recommendations when using any solvent.

Performance Tests:

Household Chemicals Test

Using ANSI-KCMA A161.2000 test procedures, panels were cured by air drying and allowed to age 10 days at ambient conditions before testing. Tests were conducted on self-sealed (2 coat) finished panels at 2.0 mils total DFT. Materials were washed off with clear water after 24 hours and allowed to recover for 10 days then the finish was examined and the following results noted:

Vinegar.....	no effect
Lemon Juice.....	no effect
Orange Juice.....	no effect
Grape Juice.....	no effect
Tomato Catsup.....	no effect
Coffee @ 115° F.....	no effect
Olive Oil.....	no effect
100 Proof Alcohol.....	no effect
Water & Detergent.....	no effect
Mustard.....	no effect
Cold Checks 20 cycles.....	Pass
Edge Soak.....	Pass

SPECIFICATIONS

Product Limitations:

- This product **must** be catalyzed with Sher-Wood Hi-Bild PreCat Catalyst, V66V3, before use at a level of 2.3% (3.0 oz/gal). Complete cross-linking and film properties will not be attained without catalyzation. Product will typically be catalyzed before delivery to the customer.
- Catalyst must be added by the user or by the Sherwin-Williams outlet.
- This product should be used within 4 months after being catalyzed to obtain optimum properties. The catalyst causes a chemical reaction in the package and dissipates after 4 months and performance properties are downgraded. **Adding additional catalyst does not restore film properties.**
- Store at room temperature (under 80° F) after catalyzation. Higher temperatures will reduce the storage life.
- Self-seal or apply over Sher-Wood Vinyl Sealers, T67F3, T67F5 or T67F6 to meet KCMA requirements.
- To achieve maximum performance properties a minimum of 2 mils DFT is required.
- Total film thickness of systems must not exceed 4 mils DFT because heavier films may show cracking and checking tendencies.
- For interior use only.
- Sher-Wood Hi-Bild PreCat Catalyst, V66V3 is an acid. To prevent acid corrosion and pitting, all equipment should be made of stainless steel. Containers should be stainless steel or plastic.
- Do not catalyze with other acid catalysts because of fast reactivity and pot life issues.
- Maximum cure and chemical resistance is attained after 10 days air drying.
- Natural wood will change color by itself and clear wood finishes will not keep this from occurring.
- To maintain HAPS compliance, only reduce with HAPS compliant reducers.
- Sher-Wood Hi-Bild PreCat Lacquer will yellow over time. With wood tone stains, this yellowing actually makes a warmer, softer appearance. Where white stains, pickled finishes, or white basecoats are used, nitrocellulose lacquer should not be used because of the yellowing of the sealer and topcoat may be considered objectionable. For these applications, Sher-Wood Acrylic Conversion Coating is recommended.

CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION

Thoroughly review product label and Material Safety Data Sheet (MSDS) 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.

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.

PRE-CATALYZED LACQUER

DuraCat™ 275 VOC

WATER CLEAR PRE-CATALYZED LACQUER

Product Code: **651885**

DuraCat™ 275 VOC Lacquer is a water clear pre-catalyzed lacquer ideal for residential and commercial interior wood surfaces.

Ideal for

- Furniture
- Fixtures & Displays
- Cabinetry & Casegoods
- Interior Wood Work
- Exceeds KCMA performance tests
- CARB AIM compliant at 275 g/l VOC
- OTC Phase II compliant at 275 g/l VOC
- Utah AIM compliant at 275 g/l VOC
- NESHAP compliant—JJ (furniture)
- Meets LEED 2009

Benefits

- Water Clear
- Non-yellowing
- Excellent abrasion resistance
- Low odor
- Excellent flow and leveling
- Excellent sanding properties

APPLICATION DATA

SURFACE PREPARATION: “White sand” wood with maximum 150 grit aluminum oxide sandpaper. Remove all sanding dust. Keep free of dirt, grease, silicone oils, lubricants and other contaminants.

APPLICATION EQUIPMENT: This product is designed for spray application through all types of application equipment.

THINNING: No thinning required. This product is designed to spray at package viscosity with all application equipment. If thinning is desired, use Rudd 652081 VOC Exempt Lacquer Thinner or Acetone.

Caution: Thinning with solvents will reduce film build and increase VOCs (unless using Acetone). Note: Thinning requirements may vary with changes in temperature and spray room conditions.

AGITATION: This product must be kept under slow, constant agitation, to ensure proper mixing and to prevent sheen variations.

CLEAN UP: Use acetone or VOC compliant lacquer clean-up solvent.

FINISHING SYSTEM

STAIN: When staining wood, use Rudd ColorTools™ Low VOC Dye Stain, ColorTool™ Low VOC Spray Only Stain, or ColorTools™ Low VOC Wiping Stain.

SEAL: Apply one coat (3 -4 mils wet) of 651825 DuraCat 275 VOC Clear PreCat Sealer or use DuraCat 275 PreCat Lacquer as its own sealer. Allow to dry 20 minutes*, sand with 220/320 grit silicon carbide sandpaper before finishing.

FINISH: Apply two coats (4—6 mils wet) of DuraCat 275 VOC Clear PreCat Lacquer. Allow 20 minutes* dry time and sand with 220/320 grit silicon carbide sandpaper between coats.

If desired, additional coats may be applied up to a total dry film of 5.0 dry mils.

*Dry times may vary with film thickness, temperature, humidity and air movement.

SAFETY PRECAUTIONS

Avoid breathing vapors, use a NIOSH approved cartridge respirator. Use pre-filters to avoid breathing spray particles or sanding dust.

Flammable Liquid: Keep away from heat, sparks and flame. Ensure adequate ventilation during use.

Read Material Safety Data Sheet and label before using.

AVAILABLE SHEENS*

Gloss	High Semi-Gloss	Semi-Gloss	Satin	Flat
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KCMA FINISH TEST

Vinegar	No Visual Effect
Lemon Juice	No Visual Effect
Orange Juice	No Visual Effect
Grape Juice	No Visual Effect
Catsup	No Visual Effect
Olive Oil	No Visual Effect
100 Proof Alcohol	No Visual Effect
Coffee	No Visual Effect
Edge Soak	Passed 24 hr KCMA test with no softening, discoloration or film defects

SPECIFICATIONS

Coverage	295 square feet per gallon @ 1 mil dry film thickness
Viscosity	17–19 seconds (#2 Zahn Cup @ 77 °F)
Sag Resistance	5 mils vertical @ 65–70 °F
Solids*	23.0–24.0% by weight 1.78–1.87 lbs per gallon
VOCs* (Volatile Organic Compounds)	Calculated: 2.22–2.28 lb/gal 266–274 g/l
HAPs* (Hazardous Air Pollutants)	Pounds HAP per Pounds Solid: 0.089–0.093
Dry to Sand	20 minutes @ 65–70 °F
Block Free	16 hours @ 5 mils wet

*Variations depend on gloss

CAUTION: Thinning will reduce film build.

*Call for current Stock Sheens and Package Sizes.

APPLICATION PRECAUTIONS

- DuraCat™ 275 VOC Clear Lacquer has a limited shelf life of approximately 6 months from date of manufacture.
- Usability and performance may not be determined from viscosity. Shelf life will vary with storage conditions.
- Do not use DuraCat 275 VOC Clear Lacquer as a topcoat over stearated sanding sealers.
- Do not use DuraCat 275 VOC Clear Lacquer in heated spray equipment.
- This product is not recommended for exterior use.
- Clear finishes will not prevent natural (unstained) wood from changing color over time.
- Finish, substrate and curing temperatures should remain above 60° F, extremes of temperature and humidity may affect product performance.
- Total film build of finishing system must not exceed 5.0 dry mils.
- This product has been tested on a limited number of substrates and over a limited number of coatings. The user is responsible for testing suitability and performance for their specific application.
- Designed for professional use by spray application only

Shipping & Storage Information

Flash Point: -4° F Pensky-Martin

OSHA Flammability Class: Flammable Liquid—Class IB

DOT Class: Paint, 3, UN 1263, PG II



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