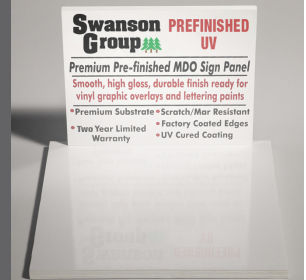# Swanson Group

PREFINISHED UV™ Sign Board

- Vinyl letter/digital print/paint ready
- 2-year warranty against flaking and peeling
- Smooth, satin finish
- Enhanced panel stability using "Swan Peel™" Technology
- Superior scratch, chip & mar resistance
- Waterproof bond for exceptional weatherability
- NAUF - meets CARB requirements

Swanson Group® provides the highest proven performance in panel solutions. Customers recognize our exceptional history of performance, exhibited in our panel solutions, including the first high gloss UV coated MDO panel in North America.

We are now enhancing our capability to provide superior panel performance. "Swan Peel"™ Technology provides a smoother surface: less grain show through, and improved glue and overlay bond. "Swan Peel"™ Technology reduces thickness variability: resulting in an enhanced balanced construction, tighter core lines, and dimensional stability. **Swanson is manufacturing overlay panels in a new state-of-the-art facility - the most technologically advanced operation in North America.**

Product Description:
Prefinished UV™ is a prefinished, satin gloss, vinyl letter/ink jet/paint ready, MDO plywood with a 2-year limited warranty. It is an excellent surface for wide layout digital printers, vinyl lettering and sign paints.

Panel Construction/Moisture Resistance:
Prefinished UV™ is constructed of a proprietary, Urethane-acrylic, cross-linked, UV cured finished applied to MDO plywood with Douglas Fir/Hemlock plywood. It is manufactured with a two-step® layup using our Swan Peel™ Technology, has a waterproof glue bond and meets APA PS 1-09. All Swanson products are made in the USA.

Working Faces/Treatment:
- Prefinished UV™ is available with one or two working faces. Panels with a single working face are provided with an MDO backer.
- Solid, satin gloss white finish with reflectance of 25 to 35
- Urethane-acrylic, cross-linked, UV cured finish consists of three thermo-set base coats and one cross-linked, UV cured top coats.
- Hard, durable, chip and scratch resistant finish

Working Edges/Treatment:
- Factory sawn edges are sealed to match face
- Fill, prime and top coat all exposed wood with at least two coats of acrylic, polyurethane or polyurethane-acrylic.

Applications:
- Vinyl letter, digital print and painted signs for the quick sign industry.
- Furniture, cabinets, displays/fixtures, shelving and partitions.
- Truck body and trailer liners/doors.

Limitations:
Prefinished UV™ must be edge sealed for exposure in exterior applications.

Thicknesses & Sizes:
Prefinished UV™ is available in 1/2" thickness only. Standard panel sizes are 4' X 8' only.

Sign Board:
- Highway® HDO - Premium sign panel, prepped for reflective film.
- SignReady UV™ - Prefinished, high gloss, paint/vinyl letter ready, 5-yr. limited warranty.
- Prefinished UV™ - Prefinished, satin gloss, paint/vinyl letter ready, 2-yr. limited warranty.
- Signal® MDO - Two-step®, hardwood faced, tightly laid core, ideal for cutout letters.
- Pre-Primed MDO - Exclusive, primed overlay, Two-step®.
- Crezon Two-Step® MDO - Premium paint grade.
- Guardian® One-Step MDO - Standard paint grade.

Technical Data Applicable Standards
All panels are manufactured by Swanson Group® per product standard PS1-09. This standard is available at www.apawood.org.

Physical Properties	1/2"
Modulus of Rupture[2, 3]	6,860 psi
Modulus of Elasticity[2, 3]	853,565 psi
Lineal Expansion[2, 3]	0.050%
Thickness Swell	3.8%
Water Absorption (24-Hours)	6.0%
Internal Bond[2]	134 psi
Face Screw Holding[2]	449 lbs.
Edge Screw Holding[2]	408 lbs.
Moisture Content[2] ASTM D-1037	6-9%
Specific Gravity[2] ASTM D-1037	.527
Density[2] ASTM D-1037	32.9 lbs./ft.[3]
Flame Spread ASTM E-84	76 - 200[5]
Smoke Developed ASTM E-84	25 - 270[5]
Flame/Smoke Spread Rating E-84	Class C
Formaldehyde Level E-1333	0.0 parts/million

Panel Tolerances[2]	1/2"
Thickness Tolerance	+/- 1/32" (.031")
Length & Width Tolerance	+0, -1/16" (.062")
Squareness	1/16" (.062")
Straightness	1/16" (.062")

[1]5-panel average. Product averages vary for individual thicknesses, consult sales or technical staff for exact properties.[2] All tolerances and specifications apply at the time of manufacture.
[2]ANSI 208.1 test result.
[3]Calculations based on test averages of along and across grain.
[4]Shelving physical properties based on engineering calculations.
[5]Flame and smoke spread properties based on engineering calculations.
[6]Shelving stiffness/bending properties are based on a limited 5-panel average.
Note: All tolerances and specifications apply at the time of manufacture.
Note: Product averages vary for individual thicknesses. Consult sales or technical offices for exact properties.

Product Grade
Standard product is shipped on grade only. Special product is shipped allowing up to 10% total Good One Side (G1S) and/or Shop, identified & priced separately. Shipments of G1S and shop may be available.

Weatherability:

Prefinished UV™					
EMMAQUA* Outdoor Accelerated Weathering Test Simulates 3.4 years in Florida and 2.9 years in Arizona					
Test	CHALK UNWSH	COLOR CHNGE UNWSH	CRACK UNWSH	BLIST UNWSH	CHECK UNWSH
ASTM #	D 4214-97	D1729-96 (2003)	D661-93 (2000)	D 714-02	D660-93 (2000)
Coating Applied	NONE	NONE	Barely Short Random with Wrinkling	NONE	NONE

*Equatorial Mount with Mirrors for Acceleration with Water.
CHALK UNWSH = Chalking, unwashed area: ASTM D4214-97 - Test methods for evaluation degree of chalking of exterior paint films (Method A/Cloth Method).
COLOR CHNGE UNWSH = Visual color, unwashed area: ASTM D1729-96 (2003) - Practice for visual appraisal of color and color difference of diffusely-Illuminated opaque materials.
CRACK UNWSH = Cracking, unwashed area: ASTM D661-93 (2000) - Method for evaluating degree of cracking of exterior paints.
BLIST UNWSH = Blistering, unwashed area: ASTM D714-02 - Method for evaluating degree of blistering paints.
CHECK UNWSH = Check, unwashed area: ASTM D660-93 (2000) - Method for evaluating degree of checking of exterior paints.

Standard Packaging:

Thickness	Preprimed UV™ 1 Face, MDO/Primed Back Average Weight* lbs./Panel	Preprimed UV™ 2 Face Average Weight* lbs./Panel	Pieces per Unit
1/2"	48.0	51.0	66

*Average product weights may vary +/- 10%

Preprimed UV™ Lettering & Finishing Instructions

1. **Vinyl Tape:** Preprimed UV™ is designed for use with most popular vinyl graphic and lettering tapes. It has shown good performance for adhesion and transfer properties with the following tapes:
   A. Gerber 3M® Scotchal™ 220 & 280 and Quantum™ 2000
   B. Rexcal® (PMK)
   C. Arlon Calon® II
   D. Avery Graphics™ A4, A6 & A9 Opaque
   E. ORACAL® 651, 751 & 851
   F. Qual-Cal
   G. Styletech™ V2000 Series & V4000 Series
   Follow the tape manufacturers application procedures.

2. **Paintability:** Prefinished UV™ has exhibited good adhesion with the following sign paints:
   A. One Shot Chromatic® Lettering and Background Enamel and "1 Shot"® Lettering Enamel
   B. Weather King II
   C. Norwest 201 White
   Recommendation: Perform an adhesion test to ensure best results.

3. **Wide Format, Digital Printers:** Prefinished UV™ is designed for most wide format, digital printers using UV cured ink jet technology.

4. **Edge Seal:** Fill and reseal cut edges or exposed wood at holes by:
   A. Applying a least two coats of acrylic, polyurethane or polyurethane-acrylic based primers and paints
   B. Applying a thin coating of paintable exterior grade caulking, then applying primer and paint as above or;
   C. Sealing the edges with exterior grade caulking, then a suitable edge cap (moulding).

Warehouse Storage and Handling
• Store in a dry, clean, well-ventilated area indoors
• Avoid temperatures and moisture extremes. Allow panels to equalize for 72 hours or more before use
• Pieces must not be stored in contact with the ground
• Limit the stacking height to four or five units. Separate units with clean, dry spacers of uniform thickness, aligned carefully. Use three spacers for panels 8' long, four or five spacers for longer panels.

Environmental Impact
• Swanson Group® uses process by-products to produce energy
• Swanson products are renewable, biodegradable and recyclable

Warranty:

[1]Bending Stiffness = EI* (lb-in²/ft); [2]Bending Resistance = M or F_bS (lb-in/ft); [3]Planar Shear Capacity: V or $F_s$lb/Q (lb/ft). There is no DOL (Duration of Load) or experience factor applied to EI. FbS and Fslb/Q.

Warnings:
This product will generate wood dust from sawing, sanding, or shaping. Safety data sheets are available on Swanson's website at www.swansongroup.biz and upon request.

Structural panels (PS-1) are exempt from California Air Resources Board regulations, however, this product is below CARB limits for all uses.

Find out more at www.swansongroup.biz

Swanson Group