



**BIRCH WOOD
SKIN FEEL PANEL**

LAMARTY

Substrate Overview

The core material of the product is European birch plywood, with 1.5mm thick fireproof boards on both the top and bottom layers.

The top layer is coated with a UV coating, and the surface of the panel is irradiated with 172-nanometer semi-transparent molecular light to cure and shrink the uncured paint. This process not only provides a skin-like texture but also makes the surface more durable and sturdy.

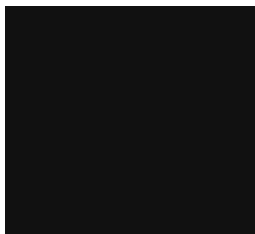
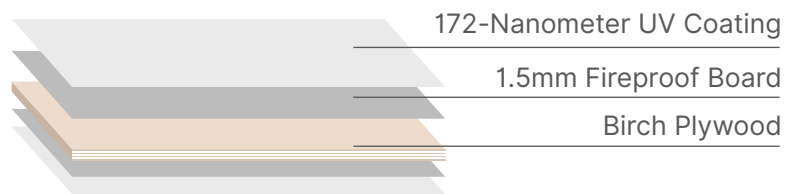
Dimensions: 1220 x 2440 / 3050 mm

Thickness: 9/18 mm

Process: 172nm Excimer UV Curing

Substrate: Birch Plywood

Environmental: CARB P2



Ink Matte



Rouge



Hermes Orange



Classic Gray



Platinum Gray



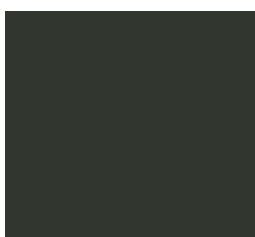
Brown



Galaxy Gray



Blue Gray



Volcanic Ash



Pearl White



Silver White



Mocha Gray

Product Advantages



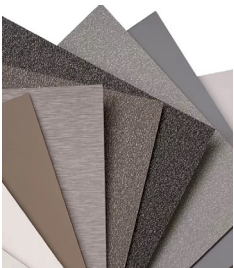
Premium Birch Core

European birch plywood base ensures exceptional structural stability and long-term resistance to deformation.



Thermal Repairability

Advanced surface technology allows minor scratches to be thermally repaired, keeping the panel looking brand new.



Enhanced Fire Safety

Dual-sided 1.5mm fireproof layers significantly improve flame retardancy and safety for high-end interiors.



Nano-Tech Coating

A 172nm UV nano-coating creates an ultra-smooth, wrinkle-free surface with superior anti-fingerprint properties.



Eco-Friendly Standards

Sustainably sourced materials with zero harmful emissions, ensuring a healthy and safe indoor environment.



Robust Durability

Molecular curing technology enhances scratch and wear resistance, significantly extending the product's lifespan.

Product Introduction

Product Coating Process

We utilize professional coating technologies from Sherwin-Williams, a global leader in the paint and coatings industry. A dual-layer system is applied to ensure the long-lasting beauty and durability of the panels:

STEP 1: REINFORCED ADHESION PRIMER

Specifically designed for melamine surfaces to ensure a high-strength bond.

Zero Delamination: Solves adhesion issues and prevents peeling.

Enhanced Machinability: Improves workability while preserving original colors.

Strong Foundation: Ensures seamless integration with UV topcoats.

STEP 2: ANTI-YELLOWING & LOW-ODOR FINISH

Applied via precision roller coating for a refined texture.

Ultra-Flat Surface: Superior sanding for a mirror-like finish.

Color Retention: Excellent anti-yellowing for long-lasting vibrancy.

Eco-Friendly: Low-odor formula for a healthier environment.



**SHERWIN
WILLIAMS®**

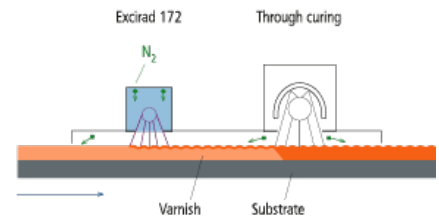


*Sherwin-Williams (USA): A global coating giant ranking in the world's top three. With a 70%+ share of the US architectural market and an annual output exceeding 1 million tons, it represents the gold standard in professional coatings.

Product Introduction

172nm Excimer Skin-Feel Technology

Utilizing a 172nm wavelength excimer UV light source within an inert gas environment, this high-precision coating process achieves a superior matte finish with a soft-touch feel. The high-energy chemical reaction triggered in a pure nitrogen atmosphere significantly increases surface hardness and density, effectively eliminating issues like fingerprints and scratches.



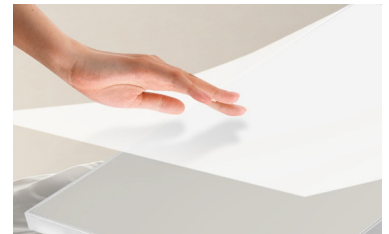
Ultimate Matte Finish (< 5GU)

Surface micro-creasing scatters light in all directions to achieve an ultra-low gloss level of 1° to 5°. This ensures exceptional color restoration—blacks look deeper and richer without the "milky" or "cloudy" appearance of traditional matte paints.



Silky "Skin-Feel" Touch

The microscopic texture reduces the actual contact area between fingers and the surface, resulting in a warm, velvety sensation similar to infant skin or premium silk.



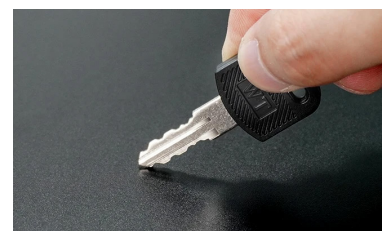
Superior Anti-Fingerprint & Stain Resistance

The combination of reduced contact area and a highly dense coating prevents finger oils from adhering to the surface. Any marks that do appear are easily wiped away.



High Hardness & Scratch Resistance

The 172nm high-density cross-linking process boosts surface hardness by 1–2 levels. This enhances scratch resistance and solves the common "polishing effect" (where scratches leave shiny marks) found in traditional soft-touch coatings.



Product Introduction

DOP

| PRODUCT CATEGORY | Lamarty Birch Wood Skin Feel Panel | | |
|-------------------------------|------------------------------------|---------------------|-------------|
| Substrate | Birch Plywood | | |
| | Unit | Reference Standard | Performance |
| GENERAL PROPERTIES | | | |
| Moisture Content | % | EN 322:1993 | 6.4 |
| Substrate Density | kg/m ³ | EN 323:1993 | 712 |
| Bending Modulus Of Elasticity | MPa | EN ISO178 | ≥9000 |
| Bending Strength | MPa | EN ISO178 | ≥80 |
| Static Bending Strength | MPa | EN 310 | 30.7 |
| Internal Bond Strength | N | EN 319:1993 | 0.50 |
| SURFACE PROPERTIES | | | |
| Color Measurement | - | DIN 5033-4 | 0.4 |
| Thickness Swelling Rate | % | EN 317 | 9.5 |
| Abrasion Resistance | Revolutions | EN 438 | ≥20 |
| Resistance To Water Vapor | Rating | EN 438 | 5 |
| Scratch Resistance | Rating | EN 438 | ≥4 |
| Light Fastness | Grade | EN 15187:2024 | ≥6 |
| Stain Resistance | Suitability | SEFA8-PL | Compliant |
| Uv Resistance Performance | - | TS EN 4892 | 0.47 |
| Color Fastness | Grade | EN ISO 105-B02:2014 | 4 |
| OTHER PROPERTIES | | | |
| Formaldehyde Emission | | EN 717-1:2004 | CARB P2 |

Test Standards: EN 319:1993, EN 323:1993, EN ISO 2808:2019 Method 4A, EN 322:1993, EN ISO 26987:2012, EN ISO 2813:2014, EN 438-2:2016+A1:2018 Clause 21, EN ISO 105-B02:2014, EN 15187:2024, EN 1399:1997 Method A and Method B, EN 12664:2001, Ref. EN 717-1:2004



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