



KOUKOUTSI ECO-MATERIAL®

PRODUCT DATA SHEET

Product Overview

Product Name: KOUKOUTSI ECO-MATERIAL

Brand: Koukos de Lab

Product Type: Eco-Friendly Manufacturing Material

Application: Sustainable Design, Interior Design, Eco-friendly Projects

Koukoutsy eco-material is a handmade panel containing natural materials and as such no two panels will be the same. Familiarize yourself with the possible variation and storage conditions to ensure optimal usage.

Product Description

Koukoutsy Eco-Material is a sustainable particleboard produced by Koukos de Lab, utilizing waste from olive oil production. This innovative material derives from olive pips and cores, offering a sustainable alternative to traditional wood-based particleboards. Ideal for indoor applications, Koukoutsy Eco-Material is suitable for flooring, countertops, wall tiles, cabinet surfaces, and furniture.

Key Features

Eco-Friendly Composition: Made from natural, renewable materials.

High Durability: Resistant to wear and tear, ensuring a long lifespan.

Aesthetic Versatility: Available in various textures and colours to suit diverse design needs.

Low Carbon Footprint: The production process is energy-efficient and minimizes waste.

Biodegradable: Fully decomposes at the end of its lifecycle, reducing landfill waste.

Technical Specifications

Material Composition: Blend of olive pips, olive core and eco binders.

Water Absorption: $\leq 10\%$. Water Absorption and Thickness Swelling:

Black Board: Lower water absorption and swelling thickness, indicating better moisture resistance.

Gold Board: Higher water absorption and swelling thickness due to the porous structure.

Contact Angle:

Black Board: An average water contact angle of 60° indicates moderate wetting.

Gold Board: The average water contact angle of 37° indicates higher wetting.

Composition:

Material	Origin	Notes
Olive pips and olive core	Greece	Waste of the olive oil production
Bio-based Epoxy Resin	UK	34% Biological Content
Wood Dust/Planing Waste	Greece	Sourced from our production
BB/BB Birch Plywood	Russia	FSC & PEFC
Natural oil - linseed oil	Greece	Food-safe Natural Oil

The manufacturing process included mixing 70% olive residue with 30% resin, casting, and curing to create the particleboards. This mixture not only makes use of a large amount of olive waste but also guarantees the strength and longevity of the end product.

- Black Board: Composed of olive core (75%) and resin (25%).
- Gold Board: Composed of olive pip (70%) and resin (30%).

Environmental Impact:

Koukoutsis Eco-Material exemplifies a commitment to responsible production practices and minimizing environmental impact by repurposing olive waste. This approach not only mitigates the negative impact of olive stone waste on the environment but also provides a sustainable resource for various applications.

Applications:

KOUKOUTSI ECO-MATERIAL is suitable for a wide range of applications, including:

Interior Wall Cladding: Adds aesthetic appeal and insulation.

Flooring: Durable and comfortable underfoot.

Furniture: Ideal for eco-friendly, custom-designed furniture.

Decorative Panels: Enhances the visual appeal of interiors.

Cabinet surfaces and Kitchen countertops

Tolerances:

Thickness: >20mm +/- 0.5mm (8mm Koukoutsis eco-material + 12mm Plywood)

Solid Thickness: >8mm +/- 0.5mm (solid made of olive pips, olive core or a mixture of both)

Length and Width (Sheets) +/- 10mm.

Sheets are supplied with a factory edge and can include slightly rounded corners/ends. Length and Width (Flooring/CNC) +/- 1mm

Installation Guidelines:

Preparation: Ensure the surface is clean, dry, and free of any contaminants.

Cutting: Use standard woodworking tools for cutting and shaping.

Adhesion: Apply eco-friendly adhesives for best results.

Finishing: Can be finished with natural oils or water-based varnishes to enhance durability and appearance.

Maintenance: Clean with a damp cloth and mild detergent; avoid harsh chemicals.

Environmental Impact:

Renewable Resources: Utilizes materials that are renewable and sustainably sourced.

Low Emissions: The production process minimizes greenhouse gas emissions.

Packaging and Storage

Packaging: Available in sheets, tiles, or custom sizes, packed in recyclable, eco-friendly packaging.

Storage: Store in a dry, well-ventilated area, away from direct sunlight and moisture.

Health and Safety

Non-toxic: Safe for use in residential and commercial environments.

Handling: Wear protective gloves and masks when cutting or sanding to avoid inhaling dust.

Maintenance Instructions:

Cleaning Routine: Regularly dust or wipe down the surface with a soft cloth or microfiber cloth to remove dust and debris. For stubborn stains, use a mild soap solution with water and gently clean the affected area. Avoid harsh chemicals or abrasive cleaners as they may damage the surface.

Avoid Excessive Moisture: While Koukoutsí eco-material is water-resistant, excessive moisture or standing water should be promptly wiped off to prevent potential damage or discoloration. Use coasters or mats under glasses and hot plates to protect the surface from moisture and heat.

Protection Against Scratches: Although durable, avoid dragging sharp or rough objects across the surface to prevent scratches. Use felt pads or soft protectors under furniture legs and avoid using abrasive materials for cleaning.

Avoid Direct Sunlight: Prolonged exposure to direct sunlight can fade colors over time. Position furniture and objects made from Koukoutsí eco-material away from direct sunlight or use curtains and blinds to reduce exposure.

Periodic Maintenance: Periodically inspect the surface for any signs of wear or damage. Address any issues promptly to maintain the aesthetic and functional integrity of the material.

By following these maintenance instructions, you can ensure that your Koukoutsí eco-material furniture and surfaces retain their beauty and functionality for years to come.