



TECHNICAL DATA & INSTALLATION

ecology III cork walls + ceiling

Product Overview

With an array of cork patterns, shades and textures, the versatile Siena Ecology III offers numerous possibilities for creative vertical installations. The rectangular Ecology III tiles can be installed in many configurations. Combined with a unique and attractive visual appearance, Ecology III is also naturally insulating, sound-absorbing, and sound-reducing, adding distinct performance attributes. Ecology III is primarily

made of cork, which is a rapidly renewable, recycled and recyclable material. Ecology III can be used to create unique installation patterns for permanent interior installations in both commercial and residential environments. Ecology III is Declare Label Red List Free, and UL GreenGuard Gold Certified.

Features

- **Manufactured From Rapidly Renewable Resources**
- **Does Not Contain Red List Chemicals**
- **Contains 90% Post-Industrial Recycled Material**
- **Sound-Absorbant & Sound-Reducing**
- **Qualifies for LEED® Credits**
- **UL GreenGuard Gold Certified**
- **CHPS & CA Section 01350 Complaint**

Technical Data

Patterns:	Gallery
Nominal Dimensions:	12" x 24"
Nominal Thickness:	Gallery - 3 mm
Surface:	Textured
Weight / Carton:	26.45 lbs
Quantity / Carton:	88 tiles (170.5 SF)
ASTM E84 (NFPA 286) - Flame Spread:	Class B, 26-75
ASTM E662 (NFPA 255) - Smoke Density:	Passes, <450
EN ISO 354 - Sound Absorption Coefficient:	a_w - 0.05
CHPS / CA Section 01350:	Compliant
LBC Red List 3.0 Chemicals:	None
Storage & Acclimation Time/ Conditions:	72 Hours / 65 degrees - 85 degrees F, 45% - 55% RH

Additional Information

Approved Adhesives

Gold Series WC 1000 Cork Contact Adhesive

Sales Support

Siena products are sold through a nationwide network of sales agents. For more information, visit sienausa.com or send an e-mail to sales@sienausa.com

Technical Support

Additional technical resources and documents are available online at sienausa.com. For additional technical support, send an e-mail to sales@sienausa.com.

1. PRE-INSTALLATION

- Consult all associated product literature concerning adhesive installation, maintenance and warranty prior to installation of material.
- Allow all trades to complete work prior to installation.
- Deliver all materials to the installation location in its original packaging with labels intact.
- Do not stack pallets to avoid damage.
- Remove any plastic and strapping from product after delivery.
- Do not remove material from packaging or store outside of packaging until ready for installation.
- Ensure that all adhesives intended for installation are approved for use with material.
- Ensure installation area and material storage conditions are between 65° F (19° C) and 85° F (30° C) and 45% and 55% RH for at least 72 hours before, during and after installation.
- Ensure HVAC system is operational and fully functioning at normal operating conditions.
- Protect installation area from extreme climate changes, such as heat, freezing and humidity, as well as direct sunlight for at least 72 hours before, during and after installation.
- Ensure all substrate preparation requirements have been performed, read and/or understood by all interested parties.
- Do not proceed with installation until all conditions have been met.

2. PRODUCT LIMITATIONS

Do not install materials over existing flooring or wall covering materials. Do not install materials in outdoor areas, in or around commercial kitchens or areas that may be exposed to animal or vegetable fats and oils or petroleum-based hydrocarbons. Do not install in or around areas that may be exposed to repeated and/or continuous topical water exposure. Do not allow product to be directly exposed to extreme heat sources, such as radiators, ovens or other

high-heat equipment. Do not install in areas that may be exposed to repeated and sustained UV light, as product may fade or discolor. Material is not intended to be a protective covering - do not use in areas where abuse and heavy physical contact is expected. Material may be susceptible to natural shrinkage and expansion due to seasonal environmental changes - avoid dramatic changes in temperature and humidity to prevent excessive gapping and buckling. Material may be susceptible to staining from wine, harsh disinfectants, cleaning agents, dyes or other harsh chemicals – ensure all chemicals and materials that may come in contact with tile surface will not stain, mar or otherwise damage the material prior to use.

3. SUBSTRATE PREPARATION

All substrates must be clean, smooth, permanently dry, flat, and structurally sound. Substrates must be free of visible water or condensation, dust, sealers, residual adhesives and adhesive removers, solvents, wax, oil, grease, asphalt, gypsum compounds, visible alkaline salts or excessive efflorescence, mold, mildew and all other extraneous coating, film, material or foreign matter. Substrate must be a structurally sound interior wall surface, such as dry plaster, cured drywall, fiber-reinforced plastic (FRP) panels, fiberglass, exterior grade plywood (Group 1, CC type), concrete, metal and masonry.

All cracks, voids, divots, grout lines and imperfections must be filled with a patch or filler suitable for the substrate. **White or light colored primers or paints may increase the appearance of natural and acceptable size variation or shrinkage during installation or seasonal environmental changes. As such, newly installed drywall must be primed with a primer that coordinates with the cork color prior to installation. If existing paint does not match cork color or pattern, substrate should be re-painted with a coordinating color paint and sanded.** All substrates that have been painted must be sanded with 100-150 grit sandpaper to create a surface profile and promote adhesion. **Failure to sand**

Painted surfaces may result in bond failure or excessive movement.

When installing directly over a resinous products, such as an epoxy paint, ensure that coating is dry to the touch and has cured for the prescribed length of time. Substrate must be clean, dry, sound and free of contaminates. Sand the surfaces of the substrate with 100-150 grit sandpaper to create a surface profile and promote adhesion. Resinous substrates are non-porous – follow all installation instructions, flash times for non-porous substrates.

Metal substrates must be thoroughly sanded/ground and cleaned of all residue, oil, rust and/or oxidation. Substrate must be smooth, flat and sound prior to installation. When installing in areas that may be subject to topical water or moisture and/or high humidity, an anti-corrosive coating must be applied to protect metal substrate. Contact a local paint or coating supplier for coating recommendations. Install material within 12 hours after sanding/grinding to prevent re-oxidation. Metal substrates are non-porous – follow all installation instructions, and flash times for non-porous substrates.

4. INSTALLATION PREPARATION

Ensure substrate is clean, dry, flat, sound and suitably prepared prior to installation, as manufacturer is not responsible for substrates that have not been properly prepared and tested for moisture. Ensure adhesive is approved for use with material and the proper applicator type and size is used, as manufacturer is not responsible for all adhesion issues related to improper adhesive selection or usage.

Prior to installation, confirm material installation pattern and direction per design specifications or work order. Tiles have a ±.05% dimensional tolerance.

Ecology III tiles may be installed in an array of installation layouts. When considering the desired layout it is important to consider the products inherent and acceptable tolerances for size, squareness, and seasonal dimensional changes as these can contribute to slight gapping at the tile joints. It is always recommended that a

mock up area be installed prior to full installation in order to determine the acceptability of the installation layout and appearance.

Inspect all tiles prior to and during installation to verify that there are no visible defects, damages or excessive shading variations. Blend tiles from several cartons and pallets to ensure consistent appearance and shade variation. Some products, colors and textures have latent and acceptable size, color and shade variations. If there are concerns regarding size, shade or color variation, do not install material and consult a sales representative and manufacturer's technical staff. **Material installed with obvious visual defects will not be covered under warranty.**

5. VERTICAL INSTALLATION

Prior to installation, stir adhesive to ensure a homogeneous and continuous consistency. Pour adhesive into a clean paint tray and close adhesive container when not in use. Be sure to only pour out adhesive that will be immediately used, as dried adhesive cannot be reused. Do not return adhesive that has been poured out to the original container.

Apply adhesive with a paint roller evenly to both the back of the tile and the substrate, ensuring complete and even coverage and a consistent, glossy film on both surfaces. Incomplete adhesive coverage could cause adhesion issues, especially around the perimeter of the tile. If adhesive is not applied uniformly or if there are concerns about adhesion, apply an additional coat to the affected area or tile once the initial coat is dry. This may be required on extremely porous substrates. Prevent excessive adhesive build-up.

It is recommended that Cork tiles be pre-coated with adhesive the day prior to coating the substrate. When pre-coating tiles, tiles may be stored front to back in the original packaging until final installation. Ensure that the back of the tiles do not make contact with each other, as this will cause full adhesion. Pre-

coated tiles must be installed within 24 hours of being coated.

Allow adhesive to dry on both surfaces prior to installation.

Immediately remove excessive adhesive from the tile face or fixtures with water and a pH neutral cleaner. Adhesive should turn from white to transparent/clear and be dry to the touch within 30 - 60 minutes. Once dry, install tile within 2 - 3 hours (60 - 90 minutes when pre-coated). Adhesive will form an immediate bond once contact is made between the two surfaces. As such, care must be taken to ensure tile is in the correct position prior to making full contact. Avoid sliding or forcing tiles into place.

Use a soft, non-marking rubber mallet with a minimum 2" surface area to carefully set each and every cork tile after installation in order to ensure that cork tile makes full contact with substrate. Be sure to set the corners, edges and centers of all tiles in order to establish complete contact and proper adhesive bond. **Failure to use an acceptable rubber mallet to set each tile immediately following installation could result in excessive movement, edge-lifting or an inadequate bond.**

Visually inspect installation to ensure that material has not shifted and that adhesive has not been compressed onto the surface. Clean excessive adhesive or adhesive residue from the surface of the material per adhesive recommendations. Do not apply abrasive or solvent based cleaners directly to material.

6. INITIAL/ROUTINE MAINTENANCE

Ensure that adhesive has cured for Ensure that adhesive has cured for recommended period of time prior to conducting initial maintenance. Remove any protective coverings prior to cleaning. Use a microfiber towel or rag to remove any dirt, dust or debris.

If necessary, the material can be cleaned with a neutral cleaner. Using an unused or thoroughly cleaned spray bottle, mix the Hilway Direct Neutral Cleaner with warm, clean potable water at a ratio of 1:5

(cleaner:water). Spray the cleaning solution onto a new and/or clean towel, sponge or rag and carefully wipe the affected area to remove dirt, debris or build-up.

For more stubborn discoloration, you may need to spray the material directly. Spray the cleaning solution onto the surface of the material and let stand for 5 minutes. Use a 3M White Utility/Scouring pad, soft-bristled scrub brush or sponge (with pole attachment, if necessary) to lightly scrub the surface of the material to remove discoloration on the surface. Use a clean towel or rag to remove excess cleaning solution.

When spraying directly onto the material, the material must be rinsed. Use a second, unused or thoroughly cleaned spray bottle with clean, cool potable water to rinse area. Wipe with a clean towel or rag to remove all excess water. Ensure material is clean and that all cleaning residue has been removed.

7. MATERIAL PROTECTION

Use construction grade paper or protective boards, such as Masonite or Ram Board, to protect material from damage by other trades. When moving appliances or heavy furniture, protect material from scuffing and tearing using temporary wall protection.

8. WARRANTY

Siena provides a 10 Commercial Year Warranty for all Ecology III cork tile. For additional information, see associated warranty documents.

FOR PROFESSIONAL USE ONLY. PLEASE CAREFULLY REVIEW ALL ASSOCIATED TECHNICAL DATA SHEETS, SAFETY DATA SHEETS, MAINTENANCE DOCUMENTS AND WARRANTY INFORMATION PRIOR TO INSTALLATION.