Sustainability
in **Design**

by COSENTINO

Product Information

ECO™ BY COSENTINO FACTS

HIGH PERFORMANCE AGAINST

- Scratching
- Staining
- Scorching

75%
Recycled Content

Mirror

Will use the equivalent of 2 million standard size recycled mirrors.

Glass

Recycles 65 million glass bottles per year.

NON-POROUS

Porcelain

Will use the equivalent of 539,000 sqft. of recycled ceramics

5™ year warranty

U.S. GREEN BUILDING COUNCIL MEMBER

NSF Live safer.™

CERTIFIED cradle to cradle SILVER

GREENGUARD Indoor Air Quality Certified

For samples visit www.ecobycosentino.com

Crystal Ash

ECO™ PRODUCT DESCRIPTION

What is ECO by Cosentino?

ECO by Cosentino is a durable surface made of 75% recycled content composed of post-industrial or post-consumer materials and is bound by an environmentally friendly resin which comes in part from corn oil.

ECO by Cosentino Attributes:

- High performance against staining, scratching and scorching
- Non-porous, does not require sealers
- Available in 10 designer colors
- Available in 63”x 128” slab
- Backed by a 5 year limited warranty
- Building teams can gain up to five points toward LEED Certification from the U.S. Green Building Council for a building project with ECO surfacing

Raw Materials

There are other eco-friendly surfacing materials in the market today, but no other like ECO by Cosentino. ECO by Cosentino reutilizes materials that have reached the end of their life cycle, thus saving on the creation and consumption of natural resources. Most of the raw materials used in the creation of ECO are:

Porcelain

Glass

Crystallized Ash

Mirror

Corn Based Resin

Stone Scraps

What does Post-Consumer mean?

- Post-consumer material is an end product that has completed its life cycle as a consumer item
- Post-consumer materials include recyclables collected in commercial and residential recycling Examples: office paper, cardboard, aluminum cans, plastics, metals, glass, mirrors, and porcelain

Simply put...

Post-consumer is the waste that individuals routinely discard in a waste receptacle that, without recycling, would otherwise end up as landfill

Post-consumer recycled materials have served their intended use, been collected from the end-user, and reprocessed as something new

What does Post-Industrial mean?

- By contrast to post-consumer, post-industrial material is derived from manufacturing waste or sub-standard products that have not been used
- This material is collected, recycled and used in the creation of a product other than its original purpose
- Post-industrial material comes from factories and manufacturing processes and can include many forms of plastic, glass, metal, and industrial ashes

Examples: - Broken and flawed glass discarded in the production of car windshields
- Left over ceramic pieces from sink manufacturing plants

Eco Friendly Resin Benefits

- Less impact to air quality
- Less energy consumption

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COSENTINO MANUFACTURING

Process Benefits

- 94% Recycled Water
- 99% of VOC purification at the factory
- Quarry Restoration
- The energy saved from recycling one glass bottle causes 20% less air pollution and 50% less water pollution than when a new bottle is made from raw materials
- A glass bottle can take up to one million years to breakdown

Manufacturing Process

Anyone can talk about respect for the environment. ECO™ by Cosentino lives it. ECO by Cosentino is a surfacing product which combines performance and design through the use of innovative technology and recycled materials. In every step of production, from extraction to manufacturing to installation, Cosentino is committed to respect and protect our environment. During the manufacturing process of ECO, 94% of the water used is recycled, thus minimizing the consumption of a very important resource. All of the minerals used in the production of ECO by Cosentino come from quarries that are fully restored under strict stewardship programs and the manufacturing process is strictly controlled to avoid emissions of any harmful particles into the air.

Cosentino worked to become leaders in environmental responsibility. That means our products do more than meet industry requirements; they meet the expectations of a conscientious society.

* Approximate yearly consumption of raw materials

ECO™ BY COSENTINO COLORS

The Green Collection

Group A

Polar Cap

Luna

Crystal Sand

Crystal Ash

Starlight

Black Forest

The Revive Collection

Group B

White Diamond

Riverbed

Iron Ore

Terra

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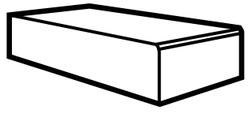
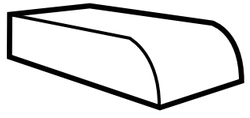
ECO™ BY COSENTINO EDGE OPTIONS

2CM

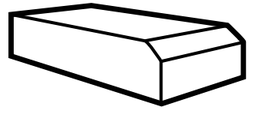


2CM Eased Edge

2CM Bullnose Edge

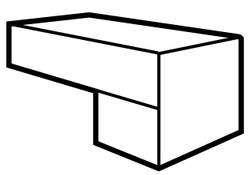


2CM Demi-Bullnose Edge

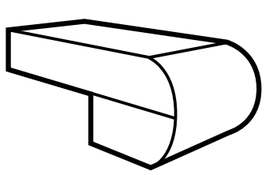


2CM Bevel Edge

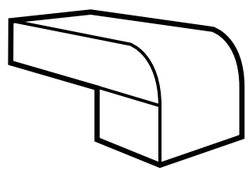
4CM



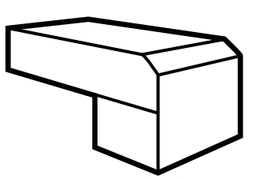
4CM Eased Edge



4CM Bullnose Edge



4CM Demi-Bullnose Edge



4CM Bevel Edge

BENEFITS OF CONSUMPTION OF RECYCLED MATERIALS

- Eliminates waste from landfills
- Utilizes less energy in creation of new raw materials
- Brings products back to life
- Less utilization of natural resources and deforestation
- ECO uses products that have reached the end of their lifecycle –materials being used cannot be incorporated in to any other industrial product and would otherwise collect in landfill sites
- The composition of ECO consist of:
    - mirrors salvaged from houses, building and factories;
    - glass from windshields, windows and bottles;
    - granulated glass from consumer recycling practices;
    - porcelain from china, tiles, sinks, toilets and decorative elements
    - industrial furnace residuals from factories in the form of crystallized ash
- Rainforests are being cut down at the rate of 100 acres per minute. ECO saves on the mining and consumption of natural resources.
- The production of Eco is expected to re-use the equivalent of 65 million glass bottles every year.
- ECO utilizes close to 2 million standard size bathroom mirrors (10.5 sq ft).
- ECO utilizes the equivalent of 539K sq ft of ceramic material yearly
- ECO utilizes a resin with 22% composition coming from vegetable origin (mainly corn)

Benefits of Using ECO™:

- Eliminates waste from landfills
- Utilizes less energy in creation of new raw materials
- Brings products back to life
- Less utilization of natural resources and deforestation
- ECO by Cosentino is Crade to Crade℠ + Greenguard certified

For samples visit www.ecobycosentino.com

ECO™ BY COSENTINO PHYSICAL CHARACTERISTICS

ECO by Cosentino meets the standards for Ceramic Tile, ANSI A-137, and Dimensional Granite ADTM C-615.

Property	Method	Results
Water Absorption and Bulk Specific Gravity	ASTM C97	0.02%: 2.29 gr/cm^3
Water Absorption	ASTM C373	.05%
Bond Strength	ASTM C482	395 psi
Modulus of Rupture	ASTM C99	5424 psi average
Chemical Resistance	ASTM C650	see test results*
Stain Resistance	ASTM C1378	see test results
Flexural Strength	ASTM C880	5004 psi average
Flexural Strength	ASTM C674	6283 psi
Thermal Shock	ASTM C484	Passed 10 cycles
Compressive Strength	ASTM C170	25, 156 psi average
Abrasive Resistance	ASTM C1353	79.40 average
Static Coefficient of Friction	ASTM C1028 dry	1.41
Static Coefficient of Friction	ASTM C1028 wet	0.50
Moisture Expansion	ASTM C370	0.04% average
Thermal Expansion	ISO 10545-8	3.0957 x 10^{-5} per °C
Freeze-Thaw	ASTM C1026	Passed 15 cycles
Flame Spread	ASTM E84	Class 1/A
Smoke Toxicity	UPITT	81.4g PASSED Std $\geq$ 19.7g required
Breaking Strength	ASTM C648	2795 lbf
MOH's Hardness		6.0

*Unaffected by all household, swimming pool, acids, bases chemicals tested.

ECO™ BY COSENTINO LEED CERTIFICATION

By using ECO by Cosentino products, building teams will have a cost-effective and durable alternative to natural stones, laminates and other surfacing material and can contribute to an environmentally sensible project in keeping with today's "green conscious" building under LEED stewardship.

Eco by Cosentino products will contribute towards obtaining the following LEED points:

1) MR Credit 4.1: Recycled Content: 10% (post-consumer + 1/2 pre-consumer)
   1 Point
   In all ECO by Cosentino colors there is a minimum of either, 75% post-consumer recycled content, or 75% pre-consumer recycled content.

2) MR Credit 4.2: Recycled Content: 20% (post-consumer + 1/2 pre-consumer)
   1 Point
   In all ECO by Cosentino colors there is a minimum of either, 75% post-consumer recycled content, or 75% pre-consumer recycled content.

3) ID Credit 1-1.4: Innovation in Design (Exemplary performance 30% recycled content)
   1-4 Points
   In all ECO by Cosentino colors there is a minimum of either, 75% post-consumer recycled content, or 75% pre-consumer recycled content.

4) EQ Credit 4.1: Emitting Materials: Adhesive and Sealants
   1 Point
   A) The network of fabricators use DAP® caulk for countertop installations. To assure contribution, make certain to request the use of DAP® caulk. DAP's VOC content is less than the current VOC content limits of South Coast Air Quality Management District Regulation 8, Rule 51.
   B) ECO products never require sealing, thereby eliminating products that produce VOC. This enhances the opportunity in obtaining this credit.

5) EQ Credit 4.4 Low Emitting Materials: Composite Wood and Agrifiber Products.
   1 Point

The inherent tensile and flexural strength of ECO products reduces or eliminates the required usage of composite wood and agrifiber products (particle board, MDF and plywood) that is necessary when using other surfacing products. These products commonly contain urea-formaldehyde resins that produce air contaminants and are potentially harmful.

*DAP is a registered trademark of DAP Products, Inc.
Source: LEED™ Rating System Version 2.1

For samples visit www.ecobycosentino.com

CRADLE TO CRADLE CERTIFICATION

Cradle to Cradle Certification provides a company with a means to measure achievement in environmentally-intelligent design and helps customers purchase and specify products that are pursuing a broader definition of quality.

This means using environmentally safe and healthy materials; design for material reutilization, such as recycling or composting; the use of renewable energy and energy efficiency; efficient use of water, and maximum water quality associated with production; and instituting strategies for social responsibility.

ECO BY COSENTINO HAS SUCCESSFULLY ACHIEVED THE CERTIFICATION CRITERIA AT THE FOLLOWING TIERS:

- **Materials** – All materials utilized in the manufacturing of ECO by Cosentino have been carefully evaluated using the Cradle to Cradle℠ Design Protocol. ECO by Cosentino has been certified at the SILVER level by MBDC.
- **Material Reutilization / Design for Environment** - The ECO products are considered to be 100% recyclable and are comprised of different levels of recycled content.
- **Energy** – A high percentage of the energy portfolio used in the manufacturing of Eco by Cosentino comes from renewable sources (wind, hydro, and solar).
- **Water** - Cosentino has adopted a set of water stewardship principles across company operations, satisfying the requirements for certification at the Silver level. These principles include a commitment of sustainable water usage, global operations management to conserve and restore water quality, protecting and restoring the public water domain, and achieving socio-economic sustainability in water operations.
- **Social Responsibility** - Cosentino maintains strict policies regarding fair employment practices, operating principles, diversity, business ethics, and conduct.

GREENGUARD CERTIFICATION

ECO™ by Cosentino has been GREENGUARD Indoor Air Quality Certified® by the GREENGUARD Environmental Institute under the GREENGUARD and the GREENGUARD for Children & Schools℠ Standards for Low Emitting Products. This means that ECO by Cosentino has low-to-no emission of toxic chemicals into the indoor environment.

CARE AND MAINTENANCE

ECO™ BY COSENTINO CARE AND MAINTENANCE
ECO by Cosentino surfaces are non-porous and do not need sealing making cleaning easy. To maintain ECO's beauty and shine simply wipe the surface with soap and water on a regular basis.

DIFFICULT SPILLS
Clean all spills immediately. To remove difficult spills, soak the area for 10 minutes with a gentle pH-balanced house cleaner or regular soap and water. Then rinse and clean away with a soft cloth. Acceptable cleaners include Windex®, 409®, Lysol® or other similar cleaners. For stains that harden as they dry, such as food and gum, remove by gently scraping off the surface (using a blade or putty remover), and then clean using warm water and soap and a soft cloth. Do not use any chemical sealant products.

EXTREME HEAT
ECO by Cosentino surfaces perform highly against heat and can withstand moderately high temperatures for brief periods of time without being damaged. As with any stone surface, however, certain exposure to heat may cause cracks due to thermal shock. Always use a trivet or a cutting board to place hot items on ECO by Cosentino surfaces. Do not use crock pots, electric skillets or other hot items directly on ECO by Cosentino surfaces.

HARSH CHEMICALS
The following chemicals will harm ECO by Cosentino surfaces: Drano®, Liquid Plumr® oven cleaners and floor strippers. DO NOT use these or any other harsh chemicals on your ECO by Cosentino surface.

SUNLIGHT EXPOSURE
Continuous long-term exposure to direct sunlight (UV Rays) may result in slight discoloration of ECO by Cosentino surfaces.

GENERAL PRECAUTIONS
To prolong the life of your knives, always use a cutting board. ECO by Cosentino surfaces are very durable and perform high against scratching, but using knives directly on the surface may dull the sharpness of most knives.

For samples visit www.ecobycosentino.com

ECO™ BY COSENTINO COMMERCIAL WARRANTY FOR NORTH AMERICA

Cosentino, N.A. warrants to the original owners of installed ECO by Cosentino products for a period of five (5) years from the date of installation that the ECO by Cosentino material will be free from manufacturing defects. If a manufacturing defect occurs during the warranty period, Cosentino, N.A. will replace the defective ECO by Cosentino products.

WHAT THIS LIMITED WARRANTY COVERS:

- Cosentino, N.A.'s obligation under the 5-year warranty covers only the replacement of the failed ECO by Cosentino product in slab form.
- This limited warranty covers ECO by Cosentino surfaces products.
- This limited warranty covers products that have been maintained according to the ECO by Cosentino surfaces Care and Maintenance guide.

WHAT THIS LIMITED WARRANTY DOES NOT COVER:

- This limited warranty does not cover color variances, thermal shock, chemical abuse or defects by fabrication, misuse, improper fabrication or improper installation.
- This limited warranty does not cover any cut to size, installation, repairs or modifications such as, for example, any installation labor or material changes, any plumbing, electrical, tile or wall surface modifications that may be necessary to repair or replace the ECO by Cosentino product covered under this limited warranty.
- Cosentino, N.A.'s sole responsibility and liability under this limited warranty shall be to replace defective ECO by Cosentino products. This limited warranty does not cover products that have not been paid for in full.
- This limited warranty does not cover uses of products for products exposed to outside weather and climate conditions, abnormal use or conditions, or abuse in any way. "Abnormal use or conditions" includes, but is not limited to, damage from mishandling or misuse, damage from excessive heat or uneven exposure to weather conditions, physical or chemical abuse, and damage from improper care and maintenance. Cosentino, N.A. is not responsible for damage or injury caused in whole or in part by acts of God, job site conditions, architectural and engineering design, structural movement, acts of vandalism, or accidents.
- This limited warranty does not cover seam performance.
- This limited warranty is non-transferable following permanent installation of ECO by Cosentino products.
- This limited warranty does not cover transportation or freight costs.

TO OBTAIN SERVICE UNDER THIS WARRANTY:
To obtain the best service under this limited warranty, contact the source from whom the ECO by Cosentino product was originally purchased. For more information about this warranty, please contact Cosentino, N.A.'s North American distributor, Cosentino N.A., directly by writing or calling:

Cosentino N.A.
ECO by Cosentino
13124 Trinity Drive
Stafford, Texas 77477
Attn: Warranty Administrator
877.436.7482

In order to obtain service under this limited warranty, a Cosentino N.A. Authorized ECO by Cosentino Installer or Cosentino, N.A.'s authorized agents must be permitted to inspect the ECO by Cosentino product being claimed under this limited warranty. Cosentino, N.A. requires full cooperation with Cosentino, N.A.'s agents in the efforts to service this limited warranty.

In no event shall Cosentino, N.A. be liable in either tort or contract for any loss of direct, consequential, punitive or incidental damages, or any similar damages, including but not limited to loss profits damages, arising out of the use or inability to use the ECO by Cosentino products. Cosentino, N.A. makes no other warranty, representation or guarantee, express or implied, with respect to its products, except as expressly stated herein. This is the only warranty offered by Cosentino, N.A. for ECO by Cosentino. No one other than Cosentino, N.A. is authorized to make any warranty or promise with respect to ECO by Cosentino Surfaces.

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Polar Cap and Iron Ore

GLOSSARY OF FREQUENTLY USED TERMS

Post-Consumer

Post-consumer material is an end product that has completed its life cycle as a consumer item. Post-consumer materials include recyclables collected in commercial and residential recycling programs, such as office paper, cardboard, aluminum cans, plastics and metals, glass, mirrors, and porcelain. It is simply the garbage that individuals routinely discard in a waste receptacle that without recycling would otherwise end up as landfill. Post-consumer recycled materials have served their intended use, been collected from the end-user, and reprocessed as something new.

Post-Industrial

By contrast, post-industrial material is derived from manufacturing waste or sub-standard products that have not been used. This material is collected, recycled and used in the creation of a product other than that for which it was originally harvested. Post-industrial material comes from factories and manufacturing processes and can include many forms of plastic, glass, metal, and industrial ashes. For example, broken and flawed glass discarded in the production of car windscreens.

Cradle to Cradle

Cradle to Cradle (C2C) is a third-party certification that provides a company with a means to tangibly, credibly measure achievement in environmentally-intelligent design and helps educate customers on eco-friendly products. All C2C products are made from non-toxic materials that, at the end of their life, are taken apart and either turned into raw materials for new products or returned to the earth as compost. These products are manufactured using renewable energy and marketed with socially responsible strategies. For example, a towel made of organic cotton which can be recycled or is biodegradable is a C2C product.

LEED

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System is a third-party certification program created by the U.S. Green Building Council (USGBC). It is the nationally accepted benchmark for the design, construction and operation of high performance green buildings. LEED encourages and accelerates global adoption of sustainable green building and development practices through the creation and implementation of universally understood and accepted tools and performance criteria. Building and design projects can receive a LEED rating for performance in five key areas, including: human and environmental health; sustainable site development; water savings; energy efficiency; materials selection and indoor environmental quality.

GREENGUARD Certification

The goal of the GREENGUARD Environmental Institute (GEI) is to improve indoor air quality by testing a product's chemical emissions. GREENGUARD has three third-party certification programs including GREENGUARD Indoor Air quality, GREENGUARD Children & Schools, and the GREENGUARD Building Construction certification. GREENGUARD's Children & School Certification is GREENGUARD's strictest standard for measuring chemical emissions, certifying that the product has been screened for more than 10,000 Volatile Organic Compounds (VOCs), phthalates, formaldehyde, aldehydes and other particles. Elevated levels of VOCs have proven to contribute to health issues ranging from asthma to neurological and respiratory disease. Products with GREENGUARD certification have shown a significant reduction of chemical emission from their products.

EASY TO REMEMBER

E – **Environmentally friendly** countertop with high performance against scratching, staining and scorching

C – **Contains 75% recycled content** (porcelain, glass, mirror), natural elements and a corn based resin

O – **Only eco-friendly surface** that combines durability, design and simplified pricing

COSENTINO®

by COSENTINO