

ECO by Cosentino®

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# RECYCLED SURFACES

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ECO by Cosentino® is part of our quest for sustainability. We gather the waste materials that we are all surrounded by to create a product with a composition of 75% recycled materials. Glass, porcelain, vitrified ashes and even water are reused to breathe new life into something that had previously expired.



RECYCLED SURFACES



# We live in the beginning of a **New Era**

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A new era has emerged where ecological awareness, environmental respect,  
and sustainability all play a crucial role.

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RECYCLED SURFACES



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It's a new era where there is a new philosophy of life which demands responsible consumption and we are more aware than ever before of the environmental impact created by many products that we use in our daily lives.

Our main objective is to continue improving our quality of life while also taking on the challenge of responsible consumption.

The first step towards a sustainable world is to make changes to our manufacturing processes and consumer habits before we run out of raw materials and natural resources become irreversibly depleted.

This is why recycling is an essential step towards achieving a better world.

Many of us have discarded unwanted or useless items with little or no consideration for recycling. Now, more than ever, it is vitally important that responsible people and organisations address one of our society's biggest issues: - Waste management. Fortunately a new generation of professionals and consumers alike are becoming aware of the environmental problems created by discarded items and are now focused on the entire life-cycle of a product with a view to recycling and regeneration.

Cosentino has shown their commitment to this principle by using sustainable materials and developing a novel and ground-breaking product used in design and construction which is manufactured from recycled materials: ECO by Cosentino®.

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# A Surface Created from **Recycled Materials**

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ECO by Cosentino® is an original product manufactured from 75% of recycled materials as:

- ▶ Porcelain from tiles, sinks, toilets, and other similar products.
- ▶ Glass, windows, containers and glassware.
- ▶ Mirrors from dwellings, buildings and factories.
- ▶ Earthenware from reclaimed tiles.
- ▶ Vitrified ash and waste generated by blast furnaces and power generating processes.

Even 94% of the water used in its manufacturing process is re-used.

ECO by Cosentino® is a new product that embraces sustainability, design and quality, it has produced a new category of recycled surfaces. These are an ecological alternative to similar surfaces available for construction and decoration.

ECO by Cosentino® has been created by a comprehensive research and development project carried out by the multinational company which has reinvested a major part of its annual income in promoting new technologies to create this state-of-the-art product.

All the manufacturing processes comply with high environmental standards; which makes ECO by Cosentino® a highly sustainable and unique product.



600 + 250 + 150 + 100 = 1 ECO SLAB



# Brings Waste Products Alive.

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ECO by Cosentino® re-uses waste products by creating a pioneering and eco-friendly product which sensibly makes use of natural resources.

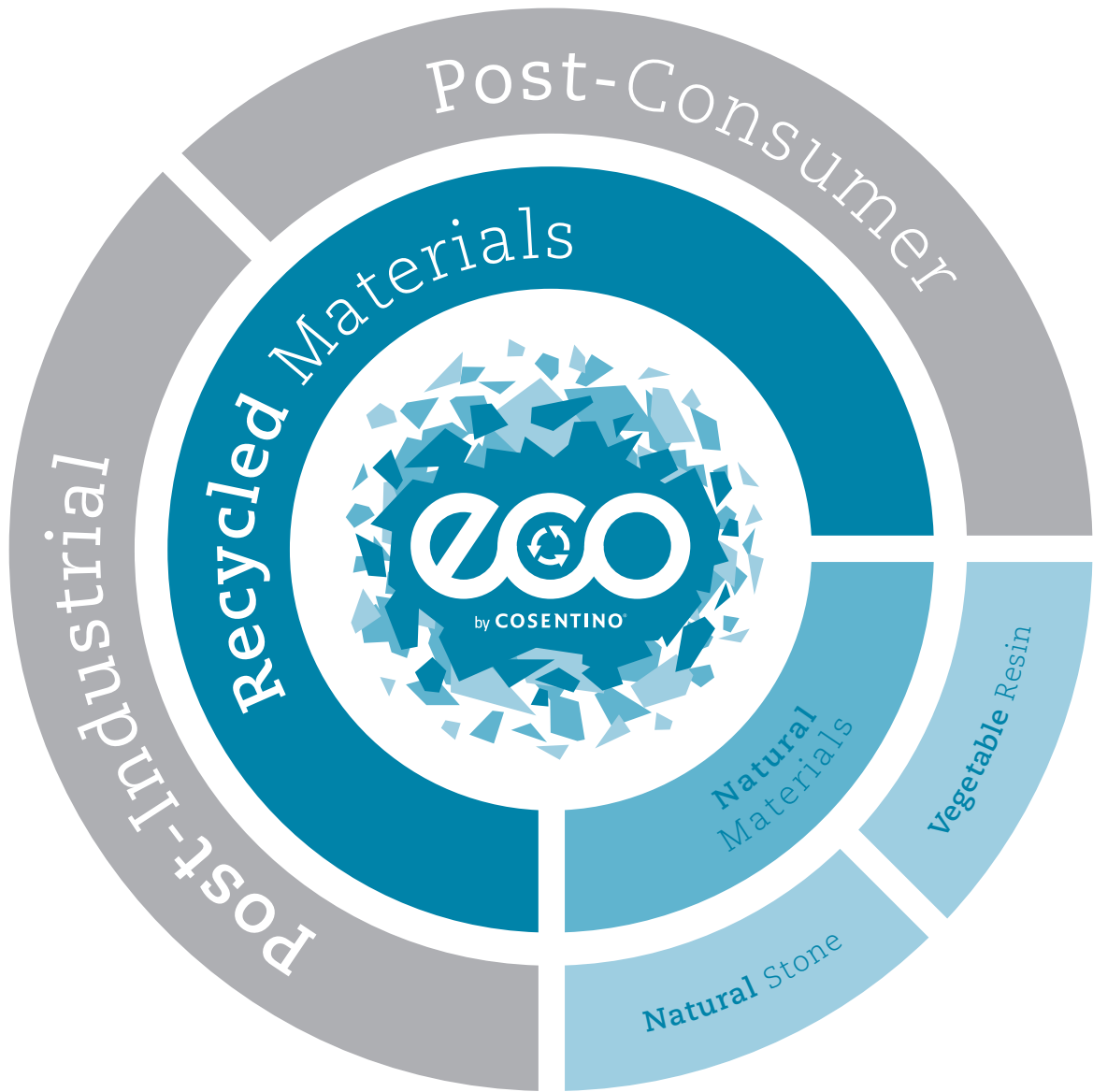
The recyclable materials used to manufacture ECO by Cosentino® can be divided into two categories: Post-consumer materials which have reached the end of their useful life and Post-industrial materials, from factories,

manufacturing waste or products surplus to the manufacturing process.

ECO by Cosentino® is composed of 75% recycled materials.

The remaining 25% is made up from a blend of quartz, natural stone, pigments and exclusive partially vegetable resin.

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# ECO-Friendly Manufacture for the Environment

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ECO by Cosentino® applies a new technology which has been developed and is being manufactured in the company headquarters

in Cantoria (Almeria, Spain) by an entirely environmentally friendly process.

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Reduces landfill waste



Emission reductions throughout the manufacturing process.



Energy savings by not using new raw materials.



99% filtering of Volatile Organic Compounds (VOCs).



Re-use of obsolete and discarded items.



No solvents used in machinery cleaning and maintenance.



Reduction of natural resources and de-forestation.



Advanced use of filtering systems.



Reduction of water usage. 94% of water is recycled.



Every product is reusable.

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# Eco Production Process

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The raw materials are supplied by commercial organisations who specialise in waste management. These materials undergo a thorough cleaning, filtering, and grading process.

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The materials are then poured into a mixer and combined with the exclusive Cosentino environment resin.

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When the mixture has melted, it is spread onto a large conveyor belt and compressed by vibrocompression.

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The compressed product is treated in an industrial oven for 1 hours and allowed to cool for a day.

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The slab is calibrated and polished with diamond buffing pads to create the finished product.



# Low Maintenance for a Long-Lasting Surface.

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## Easy Maintenance

ECO by Cosentino® requires very little maintenance to keep it as good as the day it was installed.

ECO surfaces do not need any sealants since they are not porous. To maintain the beauty and sheen of ECO surfaces, just clean them with soap and water.

The treatment of stubborn stains, sudden changes of temperature or contact with chemical products is also easy and simple. You will just need to take some simple precautions.

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## Stubborn Stains

Remove spillage immediately. Leave the area to soak for ten minutes with a Ph neutral cleanser or common soap and water. Rinse and remove soap with a soft cloth.

In the case of a dried stain (i.e. remains of food, chewing-gum, etc.) use a spatula or a similar implement to lift it and then apply soap and hot water with a soft cloth. You should never use chemical based sealant products.

## Exposure to the Sun

Long exposure to intense sun may cause discoloration in the ECO surface colour. That is why it must not be used outdoors.

## Sudden Changes of Temperatures

ECO by Cosentino® can bear high temperatures for short periods of time. However, as with many stone surfaces, exposure to heat may damage the surface due to rapid changes of temperature. You should always use trivets and mats under hot objects.

Do not place earthenware pots, heavy saucepans, or any other similar objects directly onto the ECO surface.

## Chemical Substances

Some oven and floor cleaning products may damage the ECO surface. No harsh or abrasive chemicals, solvents and cleansers should be allowed to come into contact with the ECO surface.

Examples of products that should not be used on ECO by Cosentino® surfaces: Paint strippers, brush or metal cleaning products, oven cleaning products, methylene chloride cleaning products, acids for unblocking drains, solvent with acetone, etc.

If any of these products are ever spilled onto the surface, remove as soon as possible using plenty water and mild soap.



# Eco Colours & Textures

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ECO by Cosentino\* is available in a wide range of colours which are ideal for every design and decoration project, both for the home and commercial buildings.

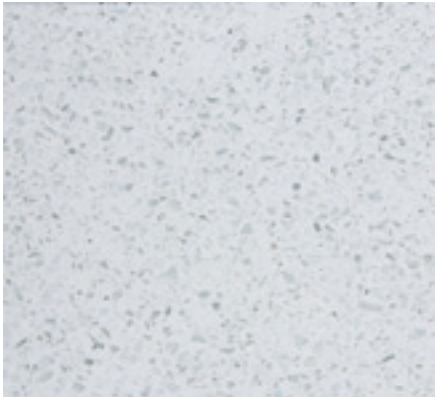
There are colours for all tastes and requirements so that both customers and professionals alike can select their most suitable choice.

ECO by Cosentino\* offers two textures: Polished (providing the surface with a brilliant shine) and Suede (matt finish).

The ECO collection is packaged in recycled cardboard. Paper and ecological manufacturing standards are used for point of sale and promotional material of the product. Labelling adheres to the environmental and recycled products regulations.

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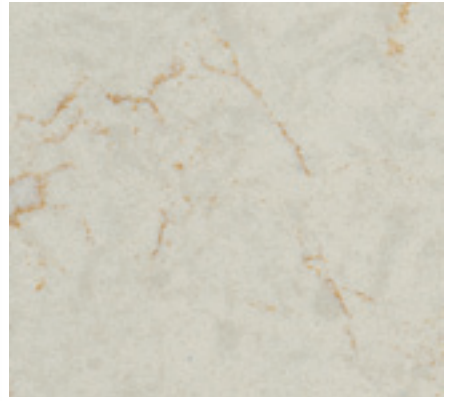
WHITE DIAMOND



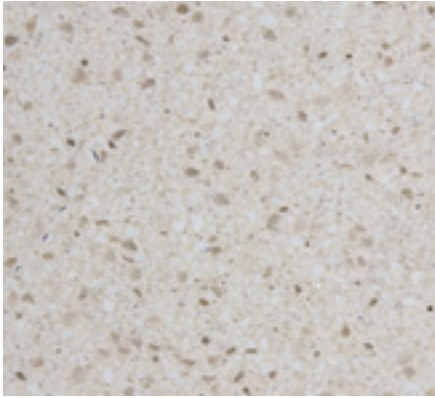
POLAR CAP



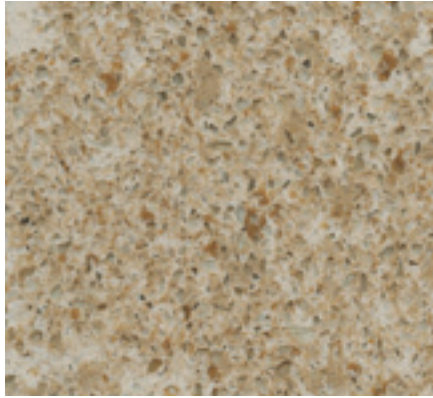
CREAMSTONE



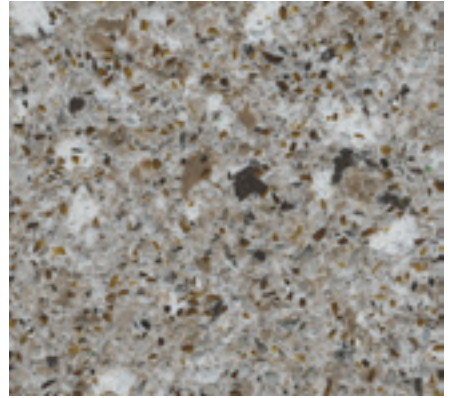
LUNA



RED PINE



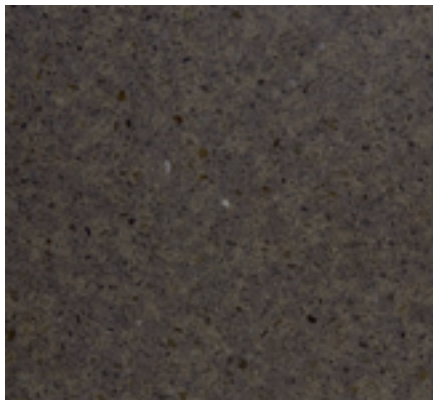
FOREST SNOW



RIVERBED



IRON ORE



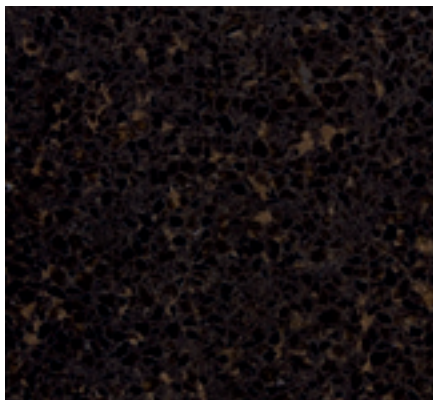
GREY MOSS



STAR LIGHT



TERRA







# Certifications for Environmental Commitment

ECO by Cosentino® has been accredited by the following international certifications, which confirm the competence of Cosentino in designing a high-quality and completely sustainable recycled surface. ECO is very proud to state that these certifications are only awarded to those products meeting very strict requirements. This represents a major revolution in the stone industry.

A surface designed for a future of sustainable construction.

ECO by Cosentino® and LEED: This acronym stands for “Leadership in Energy and Environmental Design”.

LEED is a US recognised green building certification system developed by the US Green Building Council. LEED promotes design and construction practices which are both sustainable and environmentally friendly.

The LEED rating system is also recognised in many countries throughout the world.

Construction and architectural projects using this system are awarded with LEED credits, taking into account five green design categories: sustainable sites, water efficiency, energy and atmosphere, materials and resources and indoor environmental quality.

ECO by Cosentino® complies with all the standards required for this certification in the construction industry.

## Greenguard



This certification assures the low emissions of chemical compounds to the air.

## NSF



This certification assures the security of the product in hygienic terms.

## ISO 14001



It assures the efficiency of the use of water systems and the control of environmental risks.

# Cradle to Cradle Sustainable Certification



CRADLE TO CRADLE certifies the product, considering not only the product itself, but also everything that affects the production system. Achieving this CRADLE TO CRADLE certification is a major success for Cosentino, in line with the environmental and sustainable policy of Cosentino.

CRADLE TO CRADLE is more than just a product certification; it is something else, a philosophy. The authors of the book "Cradle to Cradle: Remaking The Way We Make Things", (Michael Braungart and William McDonough) defend the idea that no consumer product should be made if it will become useless, potentially polluting junk at the end of its useful life.

## MBDC & CRADLE TO CRADLE certification:

MBDC, with headquarters in Charlottesville (Virginia, USA), was founded by William McDonough and Michael Braungart to cooperate with companies and help them use design strategies for products and systems based on environmental efficiency. This is the message they want to get across with CRADLE TO CRADLE certification, which can be awarded to any products that meet the criteria defined by this consultancy firm in terms of "environmentally intelligent" design.

Cosentino® remains committed to sustainability and environmentally friendly

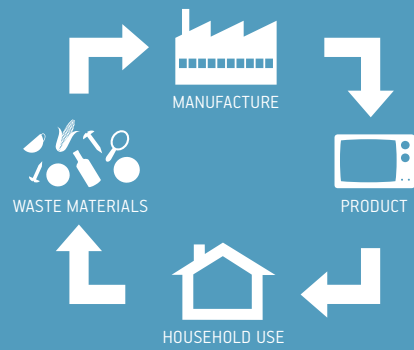
practices, as one of the company's core principles. Achieving this CRADLE TO CRADLE certification for ECO by Cosentino® supports this policy and is a good example of it.

To obtain **C2C certification**, the products in question must fulfil a series of demanding requirements, including the following:

- ▶ Using materials that are harmless and healthy for the environment.
- ▶ Making efficient use of water and promoting maximum quality of the water used for production.
- ▶ Design taking into account the reuse of the material through recycling (ability to use all the material to produce a new product) or composting (ability to return to the earth or even be used as plant fertiliser).
- ▶ Creating strategies for social responsibility.
- ▶ Using renewable energy.

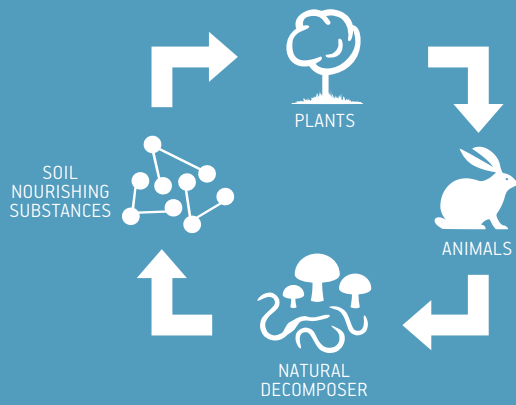
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**Technical**  
Metabolism



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Metabolism  
**Biological**





# The Environmental Product Declaration

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Certification of Life Cycle Assessment and the Carbon Footprint

The Environmental Product Declaration (The International EPD Consortium) of ECo by Cosentino certifies our product during all the stages of its existence.

This means that it not only analyzes the impact within an industrial plant, but is also based on the methodology of the Lyfe Cycle Assesment ((LCA) and the Carbon Footprint (CF).

They let us know the global environmental impact of all the initial activities (raw materials extraction) and the subsequent activities (distribution, use and waste) of Eco by Cosentino production.

Cosentino's achievement of this certificate is a significant success, as Cosentino is the first company in the quartz surface sector around the world certified by this body.

The Environmental Product Declaration granted by " The International EPD Consortium" is the most recognized international certification, with more than 140 products of more than 100

companies in 9 countries. This statement is certified by an independent checker and it is totally transparent and comparable, as its results can be freely checked.

<http://environdec.com/en/Detail/?Epd=7938>

To get this accreditation is a proud achievement because Cosentino had to be thoroughly analysed throughout the year. This included:

- ▶ All the raw materials used in its composition and the products used in its production, installation and useful life, for example, the quantity of soap used in the cleaning of this product during its useful life
- ▶ The entire transition of the product - so the transport of raw materials to the factory and transport of the product to the consumer). In each case we had to keep in mind the mode of transport (by road, ship...) and we have distinguished the vehicle in each case (van, trucks of different tonnage, tank trucks...)
- ▶ Consumption of energy, water and fuel.

- ▶ Handling of different types of produced waste.

At the same time, all this information has allowed us to calculate the impact of all associated indirect procedures. They include more than 1500 productive procedures and 200 raw materials.

Everything was worth the effort, because all this information has let us establish a global programme for continuous improvement which we will apply it gradually.

Thanks to concrete actions, we can commit in the most important aspects; such as the reduction of greenhouse-effect emissions, the efficiency in the consumption and energy of raw materials and the reduction of waste. In this way, we have started to apply direct measures; such as the optimization in the resin consumption or the prioritization of local suppliers.

All of this will continue to improve our ecological footprint

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# Sustainable Design Functional Innovation

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ECO by Cosentino® is the result of many years of research and development. The creation and development of ECO has provided a product that will be used widely in decoration and construction. Its beautiful design, available in a range of popular colours, is manufactured with high standards of physical-mechanical properties. Whilst the material is of a rigid construction it allows for a natural level of flexibility which is ideal in the handling

and manufacturing processes. The hardness rating being between 5 and 7 on the Mohs scale. ECO also has an extremely low rate of water absorption and porosity, making it an ideal material for bathrooms and kitchens. The result is a compact and hard surface highly resistant to impact, chemical products and scratches. It is a product with an unbeatable quality and style which can be used both in construction and decoration projects.

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**Kitchen**  
Countertops



**Flooring**



**Wall**  
Cladding



**Other Applications**  
Custom large size









imagine & anticipate



RECYCLED SURFACES

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\* See conditions of the guarantees

\*\* To obtain more information about colours with NSF certificate please visit [www.nsf.org](http://www.nsf.org)

