



TechniStone[®] *in green*

everlasting beauty

TechniStone[®]

TechniStone®

Technistone is the European leading manufacturer of premium quality quartz surfaces with timeless design, creative interior potential and trustworthy mechanical features. Thanks to its unique characteristics; easy maintenance, non-porous surfaces and high (bacterial/scratch) resistance, industry professionals find it to be the perfect choice for commercial and residential facilities all over the world.

TechniStone® is a premium, compact, durable and non-porous product consisting mainly of carefully selected natural materials (quartz and granite). For the impressive appearance the product is completed by colored pigments and crushed mirrors; blended and bound with a high performance polyester resin and processed into perfectly straight and flat slabs with different thicknesses and surface finishing. TechniStone® products are ideal for application in private residences, commercial or industry spaces.

They are suitable as kitchen countertops, vanity tops, stair treads and risers, tiles, tables and bars, claddings and other interior elements.

TechniStone® Advantages

- big potential for **UNIQUE DESIGN** possibilities; the color and texture of each stone are unique; it is an opportunity of individual design ideas and original solutions
- **HIGH RESISTANCE** to high temperatures, chemicals, abrasion and scratches
- **DURABILITY** (long lifetime and exceptional hardness)
- **EASY MAINTENANCE** in daily practical using (against to red wine, coke, oil, coffee and others)
- **HIGHLY BACTERIAL RESISTANT** thanks to extremely low porosity
- engineered stone satisfies all hygienic and **INDOOR AIR QUALITY** requirements
- **SUITABLE FOR CONTACT WITH FOOD**
- **LOW WASTE BY FABRICATION** when compared to natural stone (no veins and cracks)
- **SURFACE UNIFORMITY**; easy connection with other parts due to same structure

Environmentally Friendly Production

Technistone is committed to protecting the environment and is regularly inspected and in compliance with all state and local authorities.

The natural or non-chemical portion in the product is approximately 90%.

TechniStone® is produced from:

- inert materials (granulates – crushed granites, crushed quartz, crushed mirrors, siliceous sand, etc.)
- fillers (micronized siliceous raw material)
- binder (polyester resin)
- mostly inorganic color pigments
- other additives

All production buildings, installed technology and production processes have been carefully evaluated and approved according to European Environmental Impact Assessment (EIA) regulations. Technistone has been awarded the ISO 9001 certification and the company's management processes are consistent with the Quality Management System.

Utilization of recycled materials

Technistone uses recycled materials to produce more than a third of TechniStone® products. The share of recycled components in the range of 20-70% and is mainly found within the products of Mirrors and Sand (trademarks Starlight, Brilliant, Elegance, Gobi) production groups in the form of recycled glass and mirror shards. Technistone thus contributes to the utilization of waste materials and their transformation into a high quality product with unique properties.

TechniStone® products use recycled materials such as glass, mirrors and recycled filler. In addition, the waste generated by the crushing of recycled glass or mirrors is processed, which in part replaces silica sand as a raw material. The source of glass and mirrors is, in particular, the glass / mirror manufacturing company producing waste glass / mirrors, the glass / mirror processing / cutting companies, or the waste disposal and sorting company. The source of the recycled filler is the production dust for the ceramic and glass industry. Technistone thus contributes to the recycling of third-party waste and its re-use.

Production air purity

Polyester resin used as a binder in TechniStone® is dissolved in styrene. The styrene is inevitably partially released during the process of production. Technistone has got the strict system of controlled burning of all released styrene. The system is regularly inspected by state authorities under European standards. During crushing of the granites, mirror chips and other raw materials some dust might be released in the air. Therefore in every production hall there effective dust collectors are installed. These collectors secure that remaining emissions meet strict emissions limits. The whole production settings meet requirements of Directions of European Council on environment and air purity Nos. 91/962/EU, 96/62/EU and 2000/76/EC.

Recycling of waste water

The technology of the company operates in an almost fully closed water cycle so that more than 95% of the waste water from the entire plant is carefully cleaned in its own sewage treatment plant and returned to the production process. Waste sludge is used by local producers as a raw material for the production of building bricks. Thanks to its internal program, Technistone recycles 100% separating solutions, 70% solvents and 50% oils used as heating medium. The remainder of the waste is carefully categorized and transferred to professional waste management companies.

Additional activities:

- maximum use of materials from local sources to reduce negative transport impacts
- fully recyclable packaging materials
- secondary utilization of waste materials from the production of slabs (sludge from WWTPs and waste shards) for the production of cement mixtures
- increasing the efficiency of exhaust and combustion of vapors and dust filters

Elegance Eco Collection

Technistone has decided in connection with the environmental issue to include in its portfolio an offer of Elegance Eco colours, which are not only environmentally responsible, but cost effective – Elegance Eco Nev, Elegance Eco Ash a Elegance Eco Zen.

Products from the Elegance Eco range have a medium coarse texture with practical colors of white, grey and beige. The majority of Eco colors' raw materials, especially two main components – glass and quartz, come from Czech Republic where Technistone production is located. Thanks to local supply of raw materials and our manufacturing processes, Technistone is able to offer cost effective products, while reducing our carbon footprint! The content of recycled materials in these product are a minimum of 30 % and they are certified by SCS Global Services.

CHARACTERISTICS



Highly
Scratch
Resistant



Highly
Bacterial
Resistant



Natural
Juice
Resistant



Highly Stain
Resistant



Long Lifetime
& Durability



Waterproof



Quartz
Product



Made of
Natural Raw
Materials

Elegance Eco Nev

Elegance Eco Ash

Elegance Eco Zen

Elegance Eco Nev belongs to the group of white products. Thanks to its neutral appearance, it can easily be combined with colorful and dominant interior elements.

Light grey tones of Elegance Eco Ash follow the trend of very popular grey shades and is a universal material for use throughout the interior.

The Sandy-beige of Elegance Eco Zen, completes the Elegance Eco line with its earthy shade that is perfect for interiors with wood.



Ecologic Economic Elegant European

Product use after its end of life

TechniStone® products are inert and health-conscious, and these properties do not change during the recycling process.

The product can be recycled at the end of its life in several ways:

- removal from the original location in a residential or commercial space; cleaning and re-fabrication by standard methods for follow on installation in a residential or commercial space allows for the percentage by weight of recyclable material to reach up to 100%
- removal from residential or commercial space; cleaning and cutting to smaller formats for tiles allows for the percentage by weight of recyclable material to reach up to 100%
- removal from a residential or commercial space; cleaning and cutting out certain shapes for mosaic use allows for the percentage by weight of recyclable material to safely fall with 40-80%
- removal from a residential or commercial space; cleaning and crushing for use as a filler for the manufacturer of other building materials and allows for the percentage by weight of recyclable material to reach up to 100%
- removal from a residential or commercial space; cleaning and crushing and use as backfill or base material for road construction, etc, allows for the percentage by weight of recyclable material to reach up to 100%.

everlasting beauty

TechniStone®
in green

Green certificates

Environmental protection is not a question of individual activities, but a general approach to natural resources, air and other components. For Technistone, it has been a priority for many years, and now that environmental sustainability is a global issue, it can demonstrate its activities and activities in this area with a number of green certificates.

Technistone cooperates many years with prestige American company SCS Global Services! SCS Global Services, is a trusted leader in third-party environmental, sustainability and food quality certification, auditing, testing and standards development.

Health Product Declaration (HPD)

The TechniStone® product has been tested for health risk and has a complete listing Health Product Declaration, which provide a full disclosure of the potential chemicals of concern in products by comparing product ingredients to a wide variety of “hazard” lists published by government authorities and scientific associations.

TechniStone® products are tested according to the "Third Party Certified Health Product Declaration v.2" (SCS Global Services) standard.



Indoor Air Quality Certification

Technistone holds an Indoor Advantage Gold certificate demonstrating compliance with stricter indoor air quality standards. The certificate is awarded by SCS Global Services. TechniStone® products do not emit any substances that could negatively affect air quality in enclosed area (declared by Tile Council of North America). Materials meet the most demanding standards and criteria according to CA 01350 and ANSI / BIFMA M7.1.



INDOOR ADVANTAGE GOLD
BUILDING MATERIALS

Recycled Content Certification

Technistone has a certified glass, mirrors and non-flammable filler as a recycled component (in the pre-consumer category) and holds certificates on the proportion of recycled ingredients in selected TechniStone® products. At present, Technistone offers more than a third of its products with minimum 20%, 30%, 40% or 70% of recycled content in the product.



MINIMUM 30% RECYCLED CONTENT
PRE-CONSUMER



More information SCS Global Services:

<https://www.scsglobalservices.com/certified-green-products-guide>



LEED program (Leadership in Energy and Environmental Design)

The LEED assessment system was developed by the US Green Building Council (USGBC), which TechniStone has been a member since 2014.

LEED Certification provides independent verification that a house or a set of buildings has been designed and built using strategies aimed at achieving high requirements in key areas of human health and the environment (sustainable building construction, water saving, choice of suitable materials, energy efficiency and the quality of the indoor environment).

TechniStone products for building new buildings can contribute to LEED-rated credits in the Raw Materials, Material Composition, and Low Emissions categories.

Credit name:	Points:	Product Contribution:
MR CREDIT: Building Product Disclosure & Optimization - Sourcing of Raw materials	Option 2: Leadership Extraction Practices (1 possible point)	TechniStone products contain from 20% to 70% recycled content by weight, Pre-Consumer recycled content varies by color; for more information contact your representative
MR CREDIT: Building Product Disclosure & Optimization - Material Ingredients	Option 1: Material Ingredient Reporting (1 possible point)	TechniStone products have a third party verified Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration open standard
EQ CREDIT: Low-Emitting Materials	Option 1: Product Category Calculations (1 possible point)	TechniStone has certification SCS Indoor Air Quality, which meets the California Standard Method for VOC Emissions Testing and Evaluation (Standard Method V1.1), otherwise known as CA Section 01350

everlasting beauty

TechniStone®
in green



Technistone, a.s.

Bratri Stefanu 1070, 500 03
Hradec Kralove, Czech Republic
Phone: +420 495 714 711
E-mail: sales@technistone.com



www.technistone.com