

Product maintenance

TechniStone® products are some of the most high quality and durable goods available on the market today, but they are not without limitations. These basic principles and guidelines for daily use and regular maintenance will help to ensure their continued long life and beauty.

- In order to safeguard the long-term gloss it is not recommended to regularly cut food or other products directly on the surface.

- Heightened caution be observed while using special knives and sharp objects (steak knives, grill needles and spikes, etc.).

- Hot objects are not recommended to be placed directly on the surface without the use of an insulating pad.

- Hot iron/stainless steel utensils, cigarettes, lamps, etc. can cause significant material damage.

- Proceed with caution when handling utensils and other metal objects especially on the edges or corners of the surface (even the hardest stone can be damaged by heavy objects).

- The stains caused by liquid substances (coffee, tea, oil, juice from fruits and vegetables, blood, kitchen cleaning agents etc.) should be removed by water as soon as possible or by the use one of the recommended cleaning agents if necessary.

- Avoid using of cleaning agents containing hydrochloric acid, phosphoric acid, sodium hydroxide, hydrogen peroxide and other cleaning additives can cause irreversible changes to the material's color (Savo, drain cleaners, mold, grease and scale cleaners, etc.).

- It is possible to treat TechniStone® material by non-concentrated cleaning agents. However, we recommend to use products of following companies for frequent maintenance: Technistone Orange Cleaner, Fila, Bellinzoni, HG International, Moeller Chemie, Lithofin, Akemi, RAKO, Tenax, etc.

- There are also special products on the market designed to increase protection against stains (impregnations, various products containing waxes). It is recommended to use Technistone TS Protection.

- It is necessary to observe and respect the manufacturers' recommendations of as well recommended application process of cleaning agents. After using the cleaning agent it must always be removed from the surface and washed thoroughly with water.

- TechniStone® surface is not resistant to strong alkalis and even briefly exposure to hydrofluoric acid!

For more information about the maintenance and warranty of TechniStone® material, including a complete manual cleaning, visit www.technistone.com.

Slabs storing

To avoid deflections of warping of TechniStone® slabs they must be stored vertically on a compact stand. The rear side must fully lean on the stand and no part shall overlap unsupported. Slabs must be protected from UV rays.

Certifications & Membership



Certificate EN ISO 9001.



51 NF/ANSI Standard – material is suitable for food contact.



The product does not contain any volatile organic compounds. Certified by Tile Council of North America, Inc.



Indoor Advantage Gold certification meets the strictest industry standards for Indoor Air Quality.



Recycled content certification declares the content of recycled materials contained here in, are a minimum 20, 30, 40 and 70 % for selected products.



Health Product Declaration 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 is a member of The U.S. Green Building Council.



Technistone is a member of The World-Wide Agglomerated Stone Manufacturers Association.



Technistone is a member of The National Kitchen & Bathroom Association.



Produced with Italian Breton technology.



Technistone is a holder of The International Golden Award for Excellence and Business Prestige.

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everlasting beauty

TechniStone®



Technical information

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, flat and resistant slabs with different thicknesses and surface finishing. Due to its excellent characteristics, easy maintenance and low absorbent properties, it meets the most stringent hygienic requirements. 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

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Technical parameters

Dimensions of slabs

Each slab dimensions are 306 x 144 cm / 120,47 x 56,7 in with net surface 4,35 sqm / 46,75 sqft (i.e. 305 x 142,5 cm / 120,08 x 56,1 in) or 305 x 141,5 cm / 120,08 x 55,7 in with net surface 4,26 sqm / 45,79 sqft (i.e. 304 x 140 cm / 119,69 x 55,12 in). Standard thicknesses are 12 mm, 20 mm and 30 mm / 0,47 in, 0,79 in and 1,18 in.

Dimensions of tiles

Standard tile dimensions are 30 x 30 cm / 11,81 x 11,81 in, 30 x 60 cm / 11,81 x 23,62 in and 60 x 60 cm / 23,62 x 23,62 in. Standard thicknesses are: 10 mm / 0,39 in and 12 mm / 0,47 in. For special 20 mm / 0,79 thickness or other dimensions please contact your Technistone representative.

Weight

(may differ for various materials)

Thickness	Weight of 1sqm/1sqft	Weight of one slab
12 mm/0,47 in	30 kg/66 lb	128 kg/282 lb
20 mm/0,79 in	50 kg/110 lb	212 kg/467 lb
30 mm/1,18 in	75 kg/165 lb	318 kg/700 lb

Production group characteristics

Sand (trade names Gobi, Elegance)

The main feature of this TechniStone® product groups is fine to medium-grained structure. Very durable flat surface is achieved thanks to carefully selected silica sands. Some products from Elegance and Gobi range contain a percentage of recycled components.

Granite (trade names Taurus, Karpat, Sonora)

The typical coarse-grained structure is a combination of natural granites and quartz sands colored by pigments. This product is attractive for its natural "massive" appearance displayed within the texture.

Mirrors (trade names Starlight, Brilliant)

The high gloss, shimmering surface in a wide variety of colors is accentuated by mirror chips. Products from this production group contain a proportion of recycled content in the range from 20 to 70 %.

Crystal (trade names Crystal, Classic, Harmonia, Noble)

Crystal production group consists of translucent or milky natural quartz with a fine to medium grained texture. Noble collection is inspired by natural marbles with impressive veining and designs with a 3D effect.

Content of particular components

Production group	Trade names	Nature, Inorganic components	% by weight	Binder	% by weight	Coloring additives	% by weight
Sand	Elegance Gobi	Silica sand, glass	89,0 - 91,0	Resin	8,5 - 10,5	Color pigments	<0,1 - 0,5
Granite	Taurus Sonora Karpat	Granite, silica sand, quartz	90,3 - 92,0	Resin	7,5 - 9,2	Color pigments	<0,1 - 0,5
Mirrors	Starlight Fresh Venetian Brilliant	Crushed mirrors glass, silica sand, quartz	88,2 - 92,0	Resin	7,8 - 10,8	Color pigments	<0,1 - 1,0
Crystal	Crystal Classic Harmonia Noble	Quartz, silica sand, crushed mirrors, glass, granite	84,5 - 90,5	Resin	7,8 - 14,0	Color pigments	<0,1 - 1,7

Average values of achieved basic physical and mechanical characteristics of the production groups

Production group	Density (g/cm ³)		Water absorption after 48 hours (%)		Flexural strength (MPa)	
	range of values	average value	range of values	average value	range of values	average value
Sand	2,35 - 2,44	2,39	0,01 - 0,05	0,03	44 - 71	57
Granite	2,40 - 2,58	2,48	0,01 - 0,07	0,04	32 - 55	46
Mirrors	2,31 - 2,45	2,38	0,01 - 0,05	0,02	36 - 68	49
Crystal (Noble)	2,20 - 2,37	2,30	0,01 - 0,05	0,03	63 - 93	78
Crystal (grains < 2,5 mm)	2,20 - 2,44	2,37	0,01 - 0,05	0,02	50 - 97	69
Crystal (grains ≥ 2,5 mm)	2,39 - 2,47	2,47	0,01 - 0,04	0,02	31 - 54	47
Applied standard	EN 14617-1	EN 14617-1	EN 14617-1	EN 14617-1	EN 14617-2	EN 14617-2
Stated in	Technistone Laboratory	Technistone Laboratory	Technistone Laboratory	Technistone Laboratory	Technistone Laboratory	Technistone Laboratory

The range of values corresponds to the lowest and the highest result achieved within all products in the production group. The average value does not correspond to the specific value within the range, but to the average of all products' results in the production group.

Production group	Thermal expansion coefficient α (30 to 60 °C)	Thermal expansion coefficient α (20 to 130 °C)	Frost resistance coefficient (average)	Abrasion (average)
	(10 ⁻⁶ / °C)	(10 ⁻⁶ / °C)	-	(mm ³)
Sand	21,8	30,0	90 - 110	6840
Granite	13,4	17,3	90 - 110	8125
Mirrors	17,5	22,7	90 - 110	7900
Crystal	17,5 - 34,6	22,7 - 40,2	90 - 110	6700
Applied standard	EN 14617-11	EN 14617-11	EN 14617-5	EN 4157 (B)
Stated in	TZÚS Plzeň	TZÚS Plzeň	Stone and gravel test plant Horice	Stone and gravel test plant Horice

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