

## 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](http://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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**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 56,69 in with net surface 4,35 sqm / 46,75 sqft (i.e. 305 x 142,5 cm / 120,08 x 56,10 in).

Each jumbo slab dimensions are 320 x 156 cm / 125,98 x 61,41 in with net surface 4,94 sqm / 53,17 sqft (i.e. 318,5 x 155 cm / 125,39 x 61,02 in).

Standard thicknesses are 12 mm, 20 mm and 30 mm / 0,47 in, 0,79 in and 1,18 in.

### Dimensions of tiles

Each slab dimensions are 306 x 144 cm / 120,47 x 56,69 in with net surface 4,35 sqm / 46,75 sqft (i.e. 305 x 142,5 cm / 120,08 x 56,10 in).

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.

### Weight (may differ for various materials)

Thickness	Weight of 1sqm/1sqft	Weight of one slab
10 mm/0,39 in	25 kg/55 lb	107 kg/235 lb
12 mm/0,47 in	30 kg/66 lb	128 kg/282 lb
20 mm/0,79 in	50 kg/110 lb	213 kg/469 lb
30 mm/1,18 in	75 kg/165 lb	320 kg/705 lb
jumbo slab 20 mm/0,79 in	55 kg/121 lb	270 kg/595 lb
jumbo slab 30 mm/1,18 in	80 kg/176 lb	395 kg/871 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, Noble Pro)

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
<b>Sand</b>	Elegance Gobi	Silica sand, glass	89,0 - 91,0	Resin	8,5 - 10,5	Color pigments	<0,1 - 0,5
<b>Granite</b>	Taurus Sonora Karpat	Granite, silica sand, quartz	90,3 - 92,0	Resin	7,5 - 9,2	Color pigments	<0,1 - 0,5
<b>Mirrors</b>	Starlight Brilliant	Crushed mirrors glass, silica sand, quartz	88,2 - 91,2	Resin	8,0 - 10,8	Color pigments	<0,1 - 1,0
<b>Crystal</b>	Crystal Classic Harmonia Noble Noble Pro	Quartz, silica sand, crushed mirrors, glass, granite	84,5 - 90,5	Resin	8,0 - 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 <sup>3</sup> )		Water absorption after 48 hours (%)		Flexural strength (MPa)	
	range of values	average value	range of values	average value	range of values	average value
<b>Sand</b>	2,35 - 2,44	2,39	0,01 - 0,05	0,03	44 - 71	57
<b>Granite</b>	2,40 - 2,58	2,48	0,01 - 0,07	0,04	32 - 55	46
<b>Mirrors</b>	2,31 - 2,45	2,38	0,01 - 0,05	0,02	36 - 68	49
<b>Crystal (Noble)</b>	2,20 - 2,37	2,30	0,01 - 0,05	0,03	63 - 93	78
<b>Crystal (grains &lt; 2,5 mm)</b>	2,20 - 2,44	2,37	0,01 - 0,05	0,02	50 - 97	69
<b>Crystal (grains ≥ 2,5 mm)</b>	2,39 - 2,47	2,47	0,01 - 0,04	0,02	31 - 54	47
<b>Applied standard</b>	EN 14617-1	EN 14617-1	EN 14617-1	EN 14617-1	EN 14617-2	EN 14617-2
<b>Stated in</b>	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 <sup>-6</sup> /°C)	(10 <sup>-6</sup> /°C)	-	(mm <sup>3</sup> )
<b>Sand</b>	21,8	30,0	90 - 110	6840
<b>Granite</b>	13,4	17,3	90 - 110	8125
<b>Mirrors</b>	17,5	22,7	90 - 110	7900
<b>Crystal</b>	17,5 - 34,6	22,7 - 40,2	90 - 110	6700
<b>Applied standard</b>	EN 14617-11	EN 14617-11	EN 14617-5	EN 4157 (B)
<b>Stated in</b>	TZÚS Plzeň	TZÚS Plzeň	Stone and gravel test plant Hořice	Stone and gravel test plant Hořice

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