



TECHNICAL INFORMATION

everlasting beauty

TechniStone®

TechniStone® MATERIAL

Technistone is a European producer of **premium quality quartz** with **timeless design**, **excellent utility features** and a **wide variety of use**.

Thanks to **high hardness**, **easy maintenance**, **non-porous**, **non-toxic finish** and **high resistance** to mechanical and chemical damage it is sought after by **customers**, **designers** and **developers** around the world.

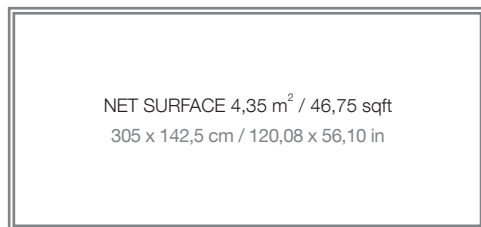
Professionals demand premium quality, expert and flawless processing for their projects. **Customer care is the top priority** for Technistone business policy.

Whether it is a private or commercial project, the **quality of used materials** is one of the most important criteria of selection, as well as their **availability** of customized design for individual project assignments.

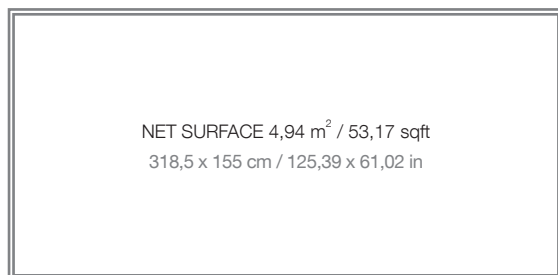
Laboratory tests, **certifications**, or **references from experts** and **end-users** from around the world prove the durability and reliability of **TechniStone®** products.

DIMENSION OF SLABS / NET SURFACE

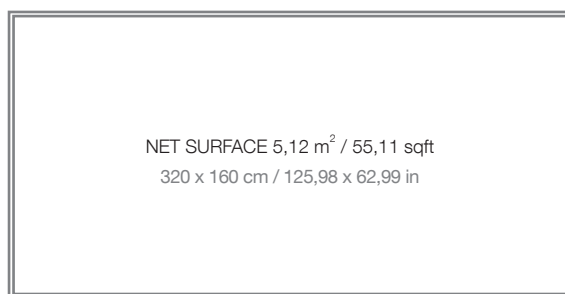
STANDARD SIZE 306 x 144 cm / 120,47 x 56,69 in



JUMBO 155 SIZE 320 x 156 cm / 125,98 x 61,41 in



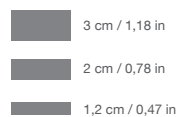
JUMBO 160 SIZE 321 x 161 cm / 126,38 x 63,39 in



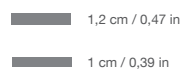
WEIGHT (may differ for various materials)

THICKNESS	WEIGHT 1m ²	WEIGHT OF 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 155 size 20 mm / 0,79 in	55 kg / 121 lb	270 kg / 595 lb
Jumbo 155 size 30 mm / 1,18 in	80 kg / 176 lb	395 kg / 871 lb
Jumbo 160 size 20 mm / 0,79 in	57 kg / 126 lb	292 kg / 644 lb
Jumbo 160 size 30 mm / 1,18 in	82 kg / 181 lb	420 kg / 926 lb

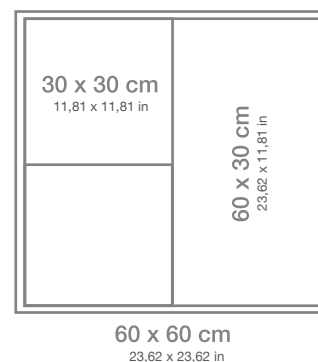
SLAB THICKNESS



TILE THICKNESS



TILE FORMAT





STANDARD FINISHES

Polished



Matt



Ardesia Polished



CERTIFICATION AND MEMBERSHIP



Certificate EN ISO 9001.



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



The product does not contain any volatile organic compounds. Certified by The 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 herein, 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.

* Only for selected products

everlasting beauty

TechniStone®

CONTENT OF PARTICULAR COMPONENTS

PRODUCT GROUP	TRADE NAMES	NATURAL INORGANIC COMPONENT	WEIGHT %	BINDER	WEIGHT %	COLOR ADDITIVES	WEIGHT %
SAND	Elegance Gobi	Silica sand , glass	89,0 - 91,0	Resin	8,5 - 10,5	Color pigments	<0,1 - 0,5
GRANITE	Taurus	Granite , silica sand, quartz	90,3 - 92,0	Resin	7,5 - 9,2	Color pigments	<0,1 - 0,5
MIRRORS	Starlight Brilliant	Crushed mirrors , glass, silica sand, quartz	88,2 - 91,2	Resin	8,0 - 10,8	Color pigments	<0,1 - 1,0
CRYSTAL	Crystal 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
EXTERIOR	Exterior	Quartz , silica sand, glass	89 - 91,0	Resin	8,5 - 10,5	Color pigments	<0,1 - 1,0

SUITABILITY FOR FOOD CONTACT AND INTERIOR USAGE

FOOD CONTACT INTERIOR USING	FOOD CONTACT	FOOD CONTACT	SPECIFICATION OF ORGANIC VOLATILE COMPOUNDS (VOC)	SPECIFICATION OF ORGANIC VOLATILE COMPOUNDS (VOC)
ALL PRODUCTS TechniStone®*	Food equipment materials – Food / Splash zone	Suitable for kitchen counter top application according EC regulations	No volatile organic compounds were found in Technistone product	No volatile organic compounds were found in Technistone product
SOURCE	NSF USA	National Institute of public health Czech Republic	National Institute of public health Czech Republic	Tile Council of North America, Inc.

* Only for selected products



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	47 - 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	2,43	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 highest achieved results for all products in the production group.
The average value does not correspond the specific value in the range but with the average of the results of all products in the production group area.

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 Hořice	Stone and gravel test plant Hořice

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TechniStone®



TechniStone® EXTERIOR MATERIAL

DIMENSION OF SLABS / NET SURFACE

NET SURFACE 4,35 m ² / 46,75 sqft 305 x 142,5 cm / 120,08 x 56,10 in
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STANDARD SIZE 306 x 144 cm / 120,47 x 56,69 in

SLAB THICKNESS

 2 cm / 0,78 in
 1,2 cm / 0,47 in

WEIGHT (may differ for various materials)

THICKNESS	WEIGHT 1m ²	WEIGHT OF SLAB
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

AVERAGE VALUES OF ACHIEVED BASIC PHYSICAL AND MECHANICAL CHARACTERISTICS OF THE PRODUCTION GROUPS

PRODUCTION GROUP	TRADE NAME	NATURAL INORGANIC COMPONENTS	WEIGHT %	BINDER	WEIGHT %	COLOR ADDITIVES	WEIGHT %	DENSITY (MINIMAL) (G/CM3)	CONFIGURATION MODUL (N/MM2)	ELASTICITY MODUL (GPA)
EXTERIOR	Exterior	Quartz, silica sand, glass	89,0 - 91,0	Resin	8,5 - 10,5	Color pigments	<0,1 - 1,0	2,3	30000	30,7
APPLIED STANDARD								ČSN EN 14617-1	ČSN EN 736174	ČSN EN ISO 178

The range of values corresponds to the lowest and highest achieved results for all products in the production group.
The average value does not correspond the specific value in the range but with the average of the results of all products in the production group area.

PRODUCTION GROUP	ABSORPTION (MAXIMUM) (%)	BENDING STRENGTH IN (MPA)	REACTION TO FIRE (CLASS)*	FREEZE COEFFICIENT (AVERAGE)	CONNECTION RESISTANCE (PULL LOAD IN THE GAP FOR FLAIL) (MINIMAL) (N) (TL. 30 MM) **	RESISTANCE TO THERMAL SHOCK (MINIMAL) (%)	CONFIGURATION MODUL (N/MM2)	ELASTICITY MODUL (GPA)
EXTERIOR	0,06	33	A2	90	4000	90	30000	30,7
APPLIED STANDARD	ČSN EN 14617-1	ČSN EN 14617-2	ČSN EN 13501-1	ČSN EN 14617-5	ČSN EN 13364	ČSN EN 14617-6	ČSN EN 736174	ČSN EN ISO 178

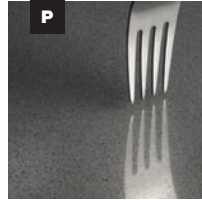
* Applicable for sheet thickness over 10 mm and for tiles mounted on metal bearing structures or on substrates of class A1 or A2
** Only applies to tiles / 30 mm of thickness formats





STANDARD FINISHES

Polished



Matt



CERTIFICATION AND MEMBERSHIP



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Production Group Sand (Trade Name Gobi, Elegance), Collection ESSENTIAL



P 30% T

ELEGANCE ECO NEV



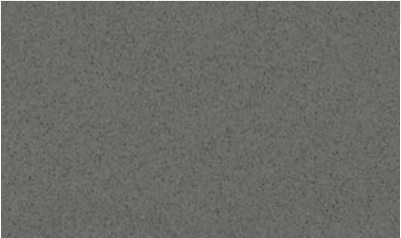
P 30% T

ELEGANCE ECO ZEN



P 30% T

ELEGANCE ECO ASH



P M

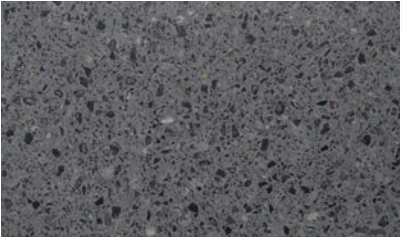
GOBI GREY



P 20%

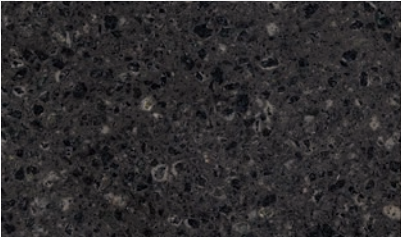
GOBI BLACK

Production Group Granite (Trade Name Taurus), Collection RUSTIC



P M T

TAURUS TERRAZZO GREY



P

TAURUS



P

TAURUS BLACK

DIMENSION OF SLAB

- J JUMBO 155 SIZE
320 x 156 cm, 125,98 x 61,41 in
- M JUMBO 160 SIZE
321 x 161 cm, 126,38 x 63,39 in

STANDARD FINISHES

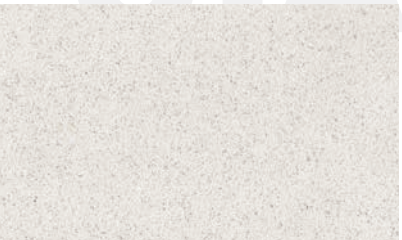
- P polished
- M matt
- AP ardesia polished

CONTENT OF RECYCLED RAW MATERIALS

- 20% 30% 40% 70%

T possibility of tiles

Production Group Mirror (Trade Name Starlight, Brilliant), Collection STARLIGHT



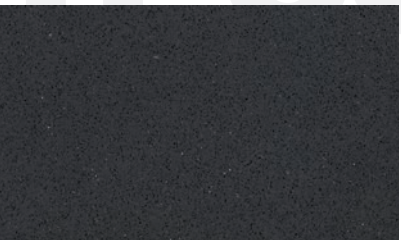
P 20%

BRILLIANT WHITE



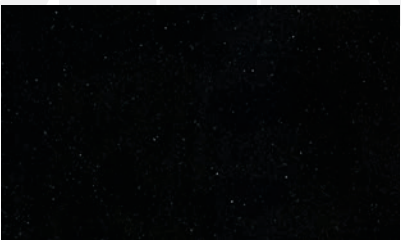
P 20% T

BRILLIANT ARABESCO



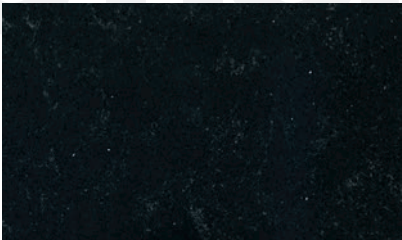
P 30%

BRILLIANT GREY



P 30%

BRILLIANT BLACK



P 30% T

BRILLIANT GALAXY



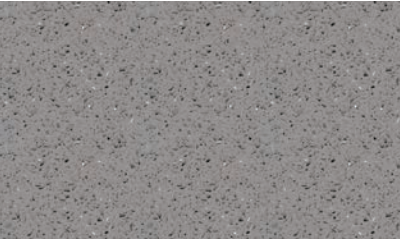
P 40% T

STARLIGHT WHITE



P 30%

STARLIGHT SAND



P 30% T

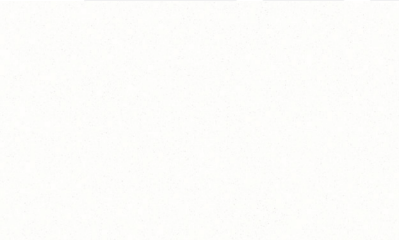
STARLIGHT GREY



P 70% T

STARLIGHT BLACK

Production Group Crystal – to 2,5 mm (Trade Name Crystal), Collection ESSENTIAL



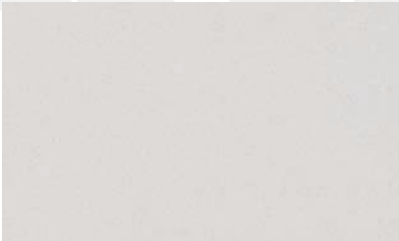
P M J 153

CRYSTAL ABSOLUTE WHITE



P

CRYSTAL POLAR WHITE



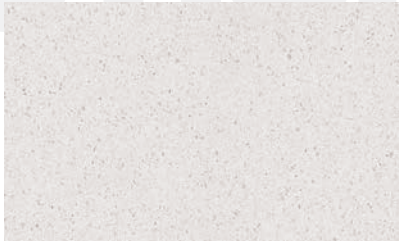
P

CRYSTAL BALANCE WHITE



P

CRYSTAL DIAMOND



P

CRYSTAL NEVADA



P

CRYSTAL QUARTZ WHITE



P

CRYSTAL ROYAL



P

CRYSTAL ANTHRACITE



P M J 153

CRYSTAL BELGIUM

Production Group Crystal – to 2,5 mm (Trade Name Harmonia), Collection HARMONIA



P

HARMONIA DOLOMITES



P

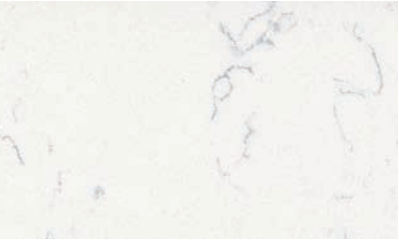
HARMONIA YOSEMITE



P

HARMONIA ALTAY

Production Group Crystal – Noble (Trade Name Noble, Noble Pro), Collection NOBLE



P

NOBLE ARETI BIANCO



P J 153

NOBLE SUPREME WHITE



P

NOBLE PRO FROST



P J 153

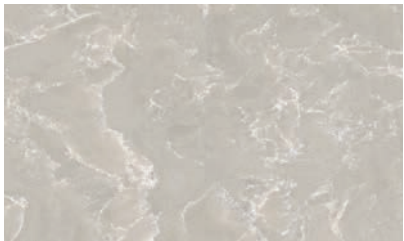
NOBLE CARRARA



P J 153

NOBLE LINEA

Production Group Crystal – Noble (Trade Name Noble, Noble Pro), Collection NOBLE



P NOBLE OLYMPOS MIST



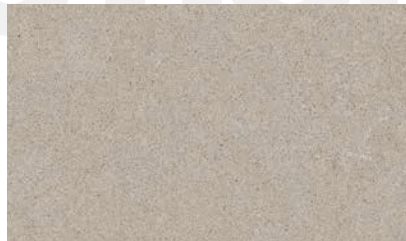
P NOBLE BOTTICINO



P NOBLE CALISTA



P NOBLE PERLATO LUNA



P NOBLE IVORY WHITE



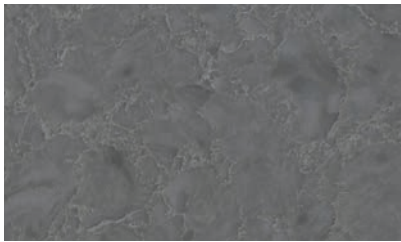
P NOBLE TROYA



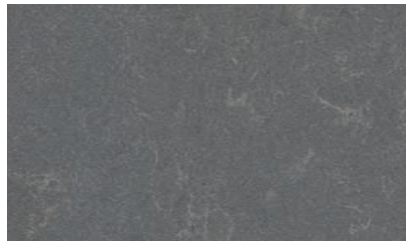
P M AP NOBLE CONCRETE GREY



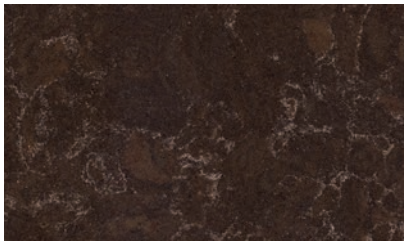
P NOBLE PRO CLOUD



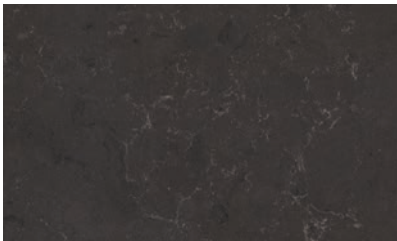
P NOBLE DESIREE GREY



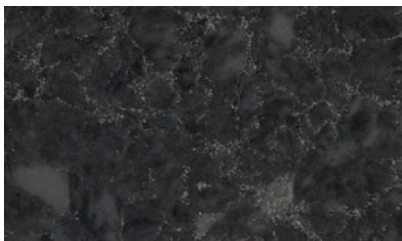
P NOBLE PRO STORM



P NOBLE ATHOS BROWN



P NOBLE PIETRA GREY



P AP NOBLE IMPERIAL GREY

DIMENSION OF SLAB

- J 155** JUMBO 155 SIZE
320 x 156 cm, 125,98 x 61,41 in
- J 160** JUMBO 160 SIZE
321 x 161 cm, 126,38 x 63,39 in

STANDARD FINISHES

- P** polished
- M** matt
- AP** ardesia polished

CONTENT OF RECYCLED RAW MATERIALS

- 20%** **30%** **40%** **70%**
- T** possibility of tiles

Production Group Crystal – (Trade Name Crystal), Collection SERENITY



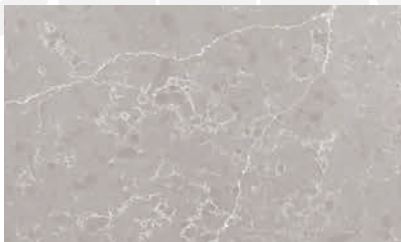
P J 160 CRYSTAL CALACATTA AMNIS



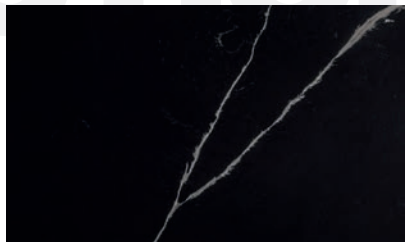
P J 160 CRYSTAL CALACATTA SILVA



P J 160 MYSTERY WHITE

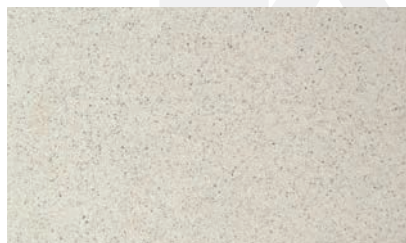


P J 160 FANTASY GREY



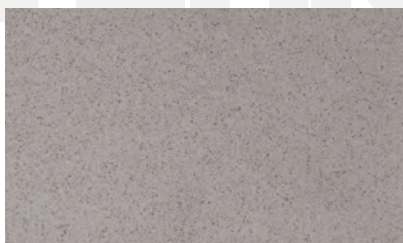
M J 160 POETIC BLACK

Production Group Exterior (Trade Name Exterior), Collection EXTERIOR



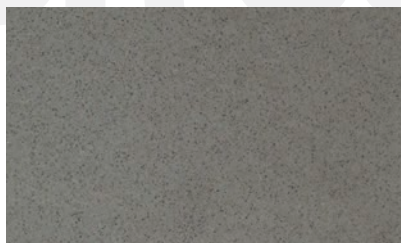
P M 20%

EXTERIOR WHITE



P M 20%

EXTERIOR LIGHT GREY



P 20%

EXTERIOR GREY



P M 20%

EXTERIOR BEIGE

MAINTENANCE

Recommended use and maintenance of the material

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. 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.

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. After using the cleaning agent, it must always be removed from the finish and washed thoroughly with water.

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.).

The material can be treated with common unconcentrated detergents.

For repeated maintenance and cleaning it is recommended using the products of Technistone, a.s. (TS Protection, TS Orange Cleaner).

Outdoor kitchens

Recommended maintenance and cleaning of outdoor kitchens are the same as those recommended for kitchen countertops in the interior.

Facades

TechniStone® Exterior Materials - Facade tiles are non-porous and do not require special maintenance. They are resistant to weathering, frost and UV radiation. Common dirt (eg cement, dust) can be removed with a damp cloth. Unlike cement-based systems, TechniStone® Exterior large-format slabs - facade tiles can also be cleaned safely with pressurized water.

If polluted by graffiti, use recommended abrasives and quartz cleaning products.

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

WARRANTY

Technistone, a.s. provides a 10-year warranty on slabs for interior and use 5-year warranty for outdoor slabs from the Exterior product line for use in outdoor kitchens. Technistone, a.s. provides a limited 10-year warranty that covers the specified physical and mechanical properties of TechniStone® Exterior facade tiles. The properties are guaranteed for 10 years from the date of the delivery of the facade tiles to the customer or his transporter. The seller is obliged to present the customer with the right to claim, throughout the warranty period, that is, in accordance with the warranty terms of Technistone, a.s.

The warranty must be activated by registering TechniStone® product on the company's website and commences at the installation date of the product in the interior of the living space. For more information, see the Warranty section of the Technistone website.

everlasting beauty

TechniStone®

TechniStone® ADVANTAGES

European quality and precision of processing

Unique gloss across the material surface

Sophisticated colour measurement system for shades of slabs

Colour uniformity, color pattern throughout the depth of the material

Prepared from natural resources (more than 90%)

A significant percentage of recycled raw material*

Possibility of seamless joining of tops for the perfect line of the veins

White shade, one of the brightest in the market

Compact non-porous material

Antibacterial highly polished finish

Nonabsorbent

Certified for food contact and interior installation*

* Only for selected products

FOR MORE UNIQUE MOMENTS

1/2019/EN

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E-mail: sales@technistone.com

www.technistone.com

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