

Maintenance instructions

Worktops from engineered stone Technistone®

1. General information on maintenance and cleaning

Resistance of Technistone® product surface to mechanical and chemical influences is determined with raw materials used (silicates, hardened polyester resin). Hardness of surface (degree 6 – 7 according to Mohs), compactibility and very low absorption makes the product high resistant against common influences.

The product used for kitchen worktops does not need any special maintenance and can be maintained with common non-abrasive kitchen cleaning agents. Yet, there are for these product applications stated cleaners and surface conservating agents that will markedly enable the surface maintenance by common kitchen run, e.g. by long-term and regular contact with spurted drops of oils during frying or with drying drops of dirty water.

The material can be treated with freely available non-concentrated washing agents, however for a more often done maintenance and cleaning it is recommended to use products from the companies Technistone, Bellinzoni and Lithofin.

You may find detailed information on web pages: www.technistone.com, www.bellinzoni.com and www.lithofin.at.

2. Important instructions for cleaning of the product

Before use of chosen cleaning or protective agent, it is necessary to make a test on small area and only after evaluation of the results on a dried up product to execute the total application!!

Most of the agents should be diluted with water according to the manual of the cleaning agents' manufacturer!!

After use of the cleaning agent it is always necessary to remove quickly and thoroughly remaining cleaning agent and released impurities from the product surface and wash the surface thoroughly with clean water!!

Longer and unnecessary action of any aggressive cleaners will most probably damage the product surface!!

Product surface (especially by gloss surface) does not long-term resist to action of strong alkalis (NaOH, KOH...) nor even for a short time to hydrofluoric acid (HF). These chemicals are contained in several cleaners available on market. Therefore it is important to use for the cleaning just products suitable for cleaning the engineered stone – they should not be identical with cleaners for natural granites or ceramics.

It is necessary to respect and keep respective recommendations of the manufacturers regarding e.g. dilution and safety data sheets of used agents. It is necessary to use eventual protective aids according to instructions of the manufacturer.

It is necessary to consider and respect below mentioned facts based on tests and practical experience. There are stated general instructions as the manufacturer of engineered stone has no influence on concrete conditions of maintenance done.

3. Recommended special agents

For the cleaning and maintenance it is recommended to use products of companies Technistone, Bellinzoni and Lithofin that offer complete line of products for these purposes – www.technistone.com, www.bellinzoni.com, and www.lithofin.at.

Company: Technistone a.s. (www.technistone.com)			
Product	Use		Note
TS Orange cleaner	Regular maintenance	Removes the grease and common impurities	-
TS Protection	Surface protection	Impregnation	Middle colour enhancement

Company: Bellinzoni (www.bellinzoni.com)			
Product	Use		Note
Wash and polish L&L	Regular maintenance	Cleans and polishes simultaneously	Necessary to dilute
Detergent Lem 3	Intensive cleaning	In-depth stone cleaning with high effectiveness	It is possible to dilute, to wash off thoroughly!
Extra strong detergent Bert 27		Strong acid cleaner, in-depth cleaning and degreasing the heavy dirtiness, cements crusts and partially also rust	It is necessary to dilute, limited time of action, to wash off thoroughly!
Alkaline based cleaner K 3		Extra strong alkali cleaner, dirtiness and grease remover	It is necessary to dilute, limited time of action, to wash off thoroughly!
Hygienix		Cleans and disinfects	-

Company: Bellinzoni (www.bellinzoni.com)			
Product	Use		Note
Wax remover Decer Dos		Intensive removal of old waxes	It is necessary to dilute
Ultra Stripper gel		Effective grease, waxes, oils and dirtiness remover	It is necessary to dilute, limited time of action, to wash off thoroughly!
Antique Finish Liquid Vieux	Special use	Special impregnation with colour enhancement , glossy	-
Pasta Mangia Macchia		Special paste for removal and cleaning the spots	-
Block D70	Surface protection	Impregnation with colour enhancement!	It is possible to dilute
Ker 13-D		Hydrophobic impregnation without colour enhancement!	-
Idea XC		Impregnation with colour enhancement!	It creates so called „wet effect“
Idea HP		Impregnation without colour enhancement!	Natural look
Idea Dark		Impregnation with colour enhancement!	Strong effect for dark colours!
Idea Gold		Impregnation without colour enhancement!	-

Company: Lithofin (www.lithofin.at)			
Product	Use		Note
Lithofin MN Easy-Clean	Regular maintenance	Cleans and protects, middle alkalic	-
Lithofin MN Power-Clean	Intensive cleaning	Cleaner, middle alkalic	It is necessary to dilute, limited time of action!
Lithofin Oil-Ex		Oil and grease remover	-
Lithofin Wax-off		Remover of organic impurities	Limited time of action!

Company: Lithofin (www.lithofin.at)			
Product	Use		Note
		and waxes	
Lithofin Rust-EX		Rust remover, middle alkalic	Limited time of action!
Lithofin MN Protector	Surface protection	Impregnation	By polished materials it can enhance the gloss, by rough surfaces the colour!

4. Cleaning and maintenance

4.1. Cleaning of the worktop

The product used for kitchen worktops does not need any special maintenance and could be maintained with common non-abrasive kitchen cleaners. We recommend e.g. TS Orange cleaner. In case of need of an intensive cleaning (e.g. removal of old fats around the hob plate, fur around the sink...), it is possible to use recommended agents Bellinzoni LEM 3, Lithofin MN Easy-Clean or Lithofin OIL EX. After the use of these cleaners, it is **NECESSARY** to wash afterwards the product surface with a detergent and clean water!! Longer and unnecessary action of any aggressive cleaners may damage the product surface.

4.2. Maintenance of the worktop surface

On polished surfaces, the same agents, as mentioned in article 4.1., are used, ev. plus Lithofin MN Fleckstop W.

On special surfaces, see below, for the common maintenance and product surface protection against water and oils it is possible to use agents Technistone Protection, Bellinzoni BLOCK D70 and Lithofin MN Fleckstop Plus "leather".

Keep thoroughly instructions for use mentioned on the agents' packages.

4.3. Special surfaces

For protection of the products with special surface treatment (brushed, honed, antique, leather, matt and slate surfaces) impregnation agents recommended by the producer should be used.

According to the load of surface it is necessary to renew the impregnation after certain time. Execution of intensive in-depth impregnation is better to leave to a specialized company.

The protecting and impregnation agents should be always applied on clean and dry surface.

The protecting and impregnation agents should be applied and spread with a microfiber cloth. The redundant agent should be wiped away. After getting dry, the protecting and impregnating layer should be polished.

On the market, there are available impregnation agents on water basis and on dissolvent basis (it is up to you which one you will use), further on impregnation

agents that **enhance the colour** or **not** – attention! It is important to read the respective label or technical sheet thoroughly. Impregnation with colour enhancement will intensify the colour shade of your material.

We recommend to use agents Technistone Protection, Bellinzoni BLOCK D70 and Lithofin MN Fleckstop Plus “leather”.

5. Main principles for use and maintenance of the material

- To keep gloss of the material for long time, it is **not suitable to cut regularly** the foodstuff or other products directly **on the worktop**.
 - Be careful by use of special knives and sharp objects (steak knives, grill needles and spikes, etc.)
- For putting **hot objects** aside, it is recommended to apply **insulation pad**.
 - Red-hot cast-iron/stainless dishes, cigarette butts, lamps etc. may cause noticeable damage on material.
- **Be careful** by manipulation with the dishes and other metal objects **especially on edges or corners of the worktop** (even the hardest stone may be damaged with an inappropriate stroke).
- By staining through liquids (coffee, tea, oil, fruits and vegetables juices, blood, cleaners for kitchen appliances, etc.), it is necessary to avoid long-lasting impact of these substances and to wash them off with water as soon as possible, eventually to use some of **recommended cleaners**.
 - Avoid use of cleaners containing hydrochloric acid, phosphoric acid, sodium hydroxide, hydrogen peroxide and other cleaning additives, they cause irreversible changes of the material colour (Savo, waste pipes cleaners, mould removers, grease and scale removers, etc.).