

# unistone®

quartz surfaces by Brachot-Hermant



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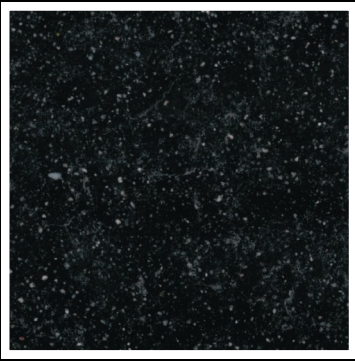
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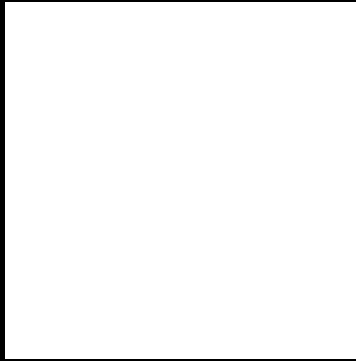




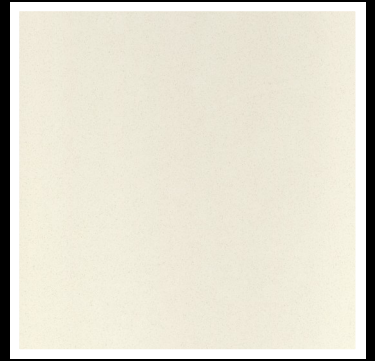
# Range of materials



Unistone® Belgian Blue



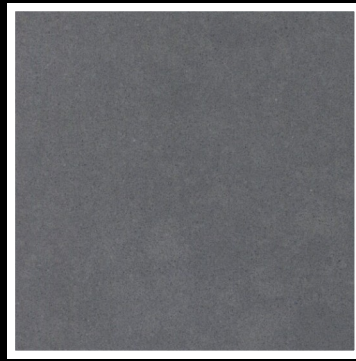
Unistone® Bianco Extreme



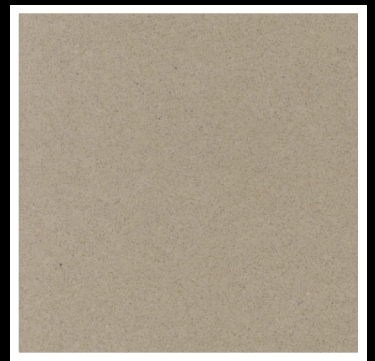
Unistone® Moca Crema



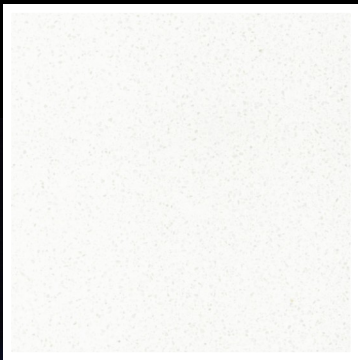
Unistone® Grigio



Unistone® Cemento



Unistone® Sabbia Greige



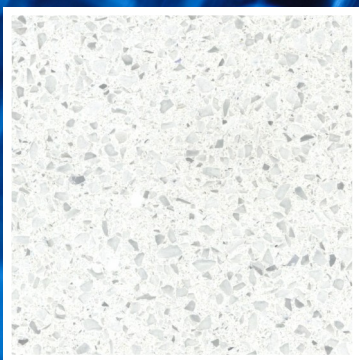
Unistone® Bianco



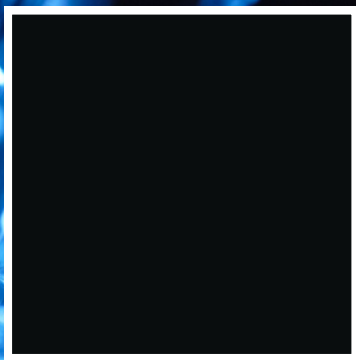
Unistone® Bruno



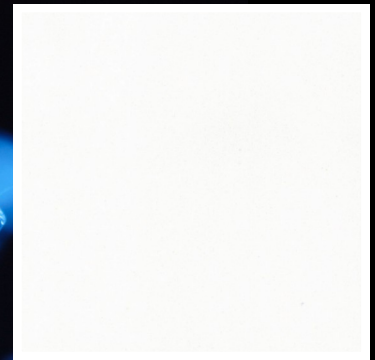
Unistone® Nero Galactica



Unistone® Bianco Galactica



Unistone® Nero Assoluto



Unistone® Bianco Assoluto



# Range of materials



Unistone® Bianco Carrara



Unistone® Bianco Cristal



Unistone® Botticino



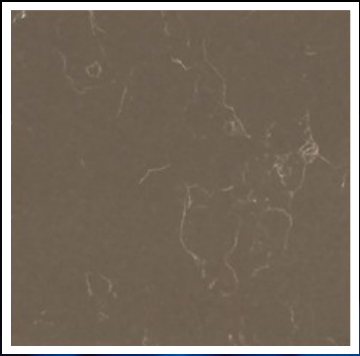
Unistone® Crema Marfil



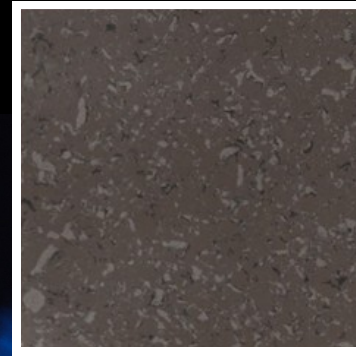
Unistone® Alaska White



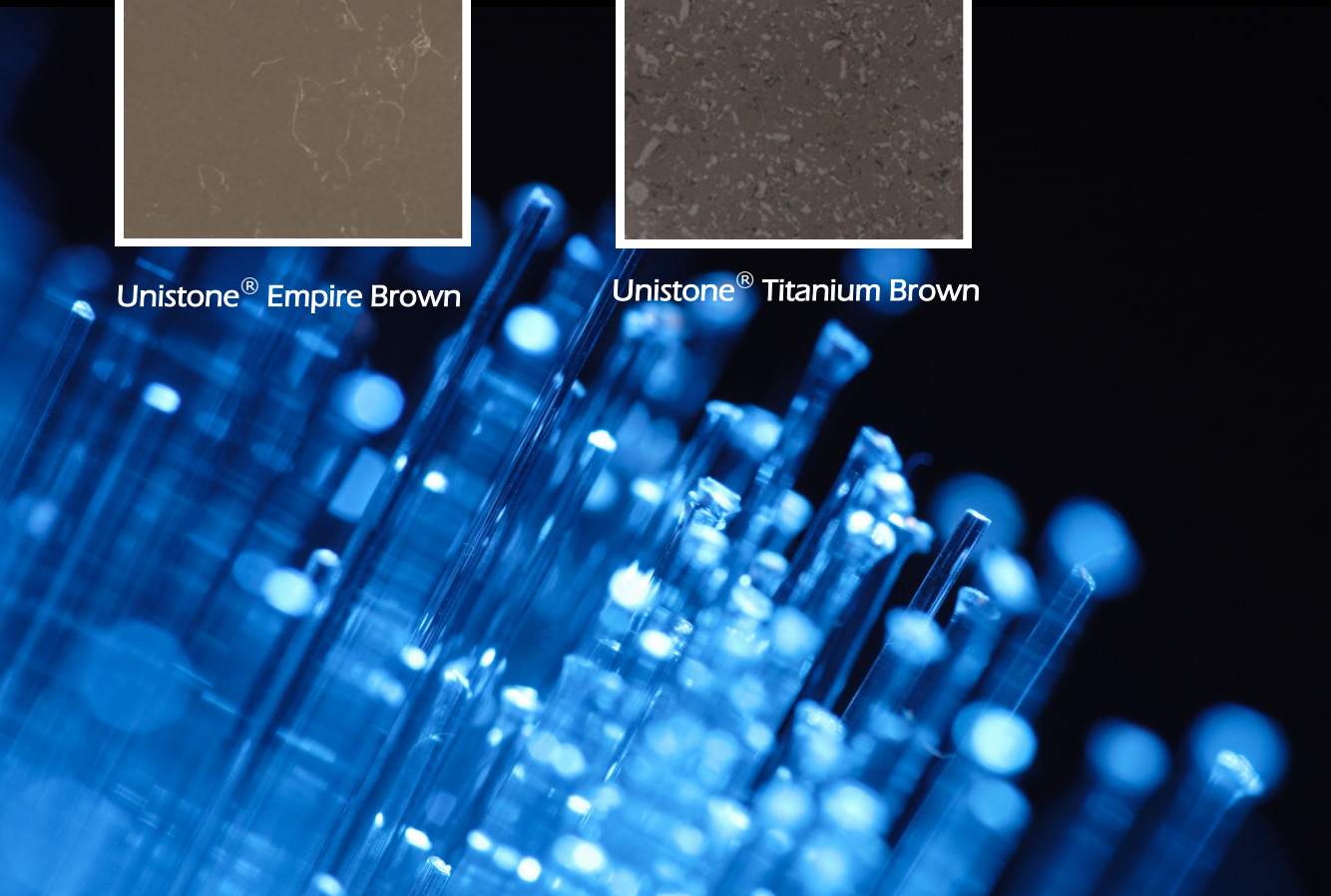
Unistone® Calacatta



Unistone® Empire Brown





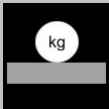




Unistone® Titanium Brown



## WHAT IS UNISTONE® ?

Unistone® is a compound stone (quartz surface), produced by the well-known **BRETON-technology**. Unistone® consists of 90 % to 93 % natural quartz bound in a resin. Therefore, the material is extremely hard and resistant. Unistone® is certified for use in kitchens (NSF-certification: no possible damaging components are released when in contact with food). It is an ideal **surface for kitchens, bathrooms, floors and walls**. On top of that, Unistone® is available in several colour-combinations that present many decorative possibilities: from kitchen tops to designs for furniture. Unistone® is only available in slabs.

## TECHNICAL PROPERTIES

APPARENT DENSITY	WATER-ABSORPTION	IMPACT RESISTANCE	RESISTANCE TO WEAR	BENDING STRENGTH	CHEMICAL RESISTANCE	MOLD GROWTH
						
2380 - 2450 kg/m <sup>3</sup>	0,022 - 0,038 mass%	3,0 -5,5 Joule	170 - 210 mm <sup>3</sup>	40 - 70 N/mm <sup>2</sup>	resistant	resistant
foreign product information	foreign product information	foreign product information	foreign product information	foreign product information	foreign product information	foreign product information
EN-14617-1	EN-14617-1	EN-14617-9	EN 14617-4	EN-14617-2	EN-14617-10	ASTM D 6329-98

## ***POINT OF ATTENTION***

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- ★ spilled liquids and/or food must be removed and cleaned from the surface as quickly as possible. Especially coffee and tea which create stains that are harder to remove due to their strong/aggressive colouring properties and also when these products are left on the Unistone<sup>®</sup>-surface for a longer period and dry-out.
- ★ stains that are hard to remove with just clear water and a sponge, can mostly be removed with CIF CREAM (white, neutral) and a soft sponge (for NON-POLISHED surfaces, VIM can also be used). Rub well and rinse afterwards with clear warm water.
- ★ products which harden after drying (chewing gum, mustard, grease,...) must be firstly removed as much as possible with a bold plastic scraper. After this, clean with CIF CREAM (white, neutral) or a mixture of vinegar and water.
- ★ NEVER put hot pots, pans,... directly on a Unistone<sup>®</sup>-surface.
- ★ NEVER use bleach or products based on ammonia, products with a pH-value higher than 10 or strong solvents on a Unistone<sup>®</sup>-surface. Certain aggressive chemicals, such as oven cleaners, can result in permanent damage of the surface. NEVER use products that contain trichloorethane or methyl chloride, such as paint removers or strippers.
- ★ avoid contact with marking or printing inks.
- ★ a Unistone<sup>®</sup>-surface is harder than metal (for example a knife, buckle of a belt,...). Metal-marks can stay on the surface when cutting on Unistone<sup>®</sup>-materials. Always use a chopping board when cutting vegetables,... to avoid metal-marks on the Unistone<sup>®</sup>-surface. Metal-marks can be removed with CIF CREAM (white, neutral) and a soft sponge (for NON-POLISHED surfaces, VIM can also be used).
- ★ LOOK OUT with abrasive products (strongly scratching components) on a polished surface. Always use a soft sponge, no steel wool.
- ★ due to the great hardness of this material, a certain impact (falling/bouncing hard object,...) can cause a small pit in the surface. This can be repaired with a special repair-kit for kitchen-tops in compound material/quartz surfaces (for example "RepairLux<sup>®</sup>" from König).

- ✱ NEVER use colour enforcing products or multiple layers of impregnation products on a Unistone®-surface. A film will be created that is hard to remove.
- ✱ NEVER use waxes, oils, greasy soaps or shine-improving products on a Unistone®-surface. A film will be created.
- ✱ after cleaning, ALWAYS rinse well with clear water! Even volatile cleaning products like acetone can leave a thin film on the surface.
- ✱ direct sunlight (UV-rays) can alter the colour of Unistone®-surfaces. Never install this product outside! It is no problem to use Unistone® behind a window, since glass is a sufficient UV-filter.

### ***POINTS OF ATTENTION FOR THE INSTALLATION OF KITCHEN TOPS IN UNISTONE®***

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- ✱ always make sure to have a stable and dry surface, free of grease.
- ✱ always use an acid-free silicone. When using silicones, it is recommended to protect the borders of the parts that are glued with some tape (to allow an easier removal of remnants of silicon on the surface).
- ✱ use appropriate/adapted products to remove possible remnants of silicone (for example acetone). Some silicone-removers may have negative results for Unistone®-material, so it is not recommended to leave dirty cloths with remnants of cleaner for a longer period on the surface.
- ✱ it is recommended to leave on each side of a cooking plate or sink an expansion joint of minimal 3 mm. Such expansion joints are also necessary between walls (or other solid building parts) and the kitchen-top.



## ***INSTALLATION OF UNISTONE® AS FLOOR-WALL-STAIRS***

Due to the great hardness and resistance to wear, Unistone® can be used for floor- or stair covering (or wall-covering) in INTERIOR applications in individual buildings and also in buildings with a moderate to intensive collective use.

### ***Points of attention***

- ★ like with all interior applications, the room must be free of rain, frost and draught and sufficiently dry.
- ★ the tiles must be stored in a dry, covered space with a temperature of min. + 5 °C.
- ★ please respect the necessary expansion joints and joints at the borders of the rooms as required when installing a floor on a dry concrete counter-floor (see also TV 213 from the BBRI, Belgium).
- ★ the sub-floor (counter-floor) needs to be sufficiently flat, clean and dry!
- ★ it is very important that the installation is done ON A DRY SUB-FLOOR (dry and hardened counter-floor) with an ADAPTED MORTAR-GLUE! Double gluing is necessary (the glue / mortar-glue needs to cover the whole bedding surface of the tile)!
- ★ the installation with very narrow "marble-joints" (+/- 1 mm) is not recommended because of the high coefficient of expansion.
- ★ always use mortar-glues adapted for compound-material (fast-hardening glues with a low water-content).
  - \* For example OMNICOL recommends to install compound material with a quick-hardening glue (Omnicec E flex or Omnicem PL85 Prof R or Omnicem DBflex R (for thicker layers)). For a better adhesion, a primer could be used: Omnibind TP. For the joints, Omnifill B102 is recommended by OMNICOL.
  - \* For example MAPEI recommends Granirapid or Elastorapid.
- ★ after installation, it is recommended to clean the floor with Lithofin WEXA; possible cement-veils can be removed with Lithofin MN Builders' Clean. The standard maintenance of a floor in Unistone® can be done with a neutral, not greasy maintenance soap (added in water) or with Lithofin MN Wash & Clean (add a small quantity in a bucket with water; do not exaggerate with the quantities of maintenance/cleaning products!).

# *TREATMENT OF QUARTZ COMPOUND STONE BY THE STONEMASON*

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## **1. First cleaning of new surfaces**

The surface needs to be cleaned immediately after fabrication.

Remove the water from the surface with a wiper, apply Lithofin PRO Compound Cleaner and disperse this product with a white pad over the whole surface.

Scrub regularly the surface with the pad for approximately 10 minutes.

Rinse the surface with a lot of water and wipe the surface dry with a clean cloth.

Check if the surface dries evenly and if all the dirt from fabrication or transport is removed.

After drying, the surface is optimally prepared for further protective treatments.



## 2. Protective treatment

Remark : depending on the producer, the surface-finish and its colour, quartz compound material might react differently. Always carry out a test surface on a remnant of the compound stone to evaluate to correct treatment.

There are 2 possible treatments:

### A. Lithofin Protector 'W'

- ♦ impregnation product on a water-base – free of solvents
- ♦ doesn't change the outlook
- ♦ easy to use
- ♦ can be applied on all surfaces



For honed and lightly brushed (Letano) surfaces: use only Lithofin Protector W!

Instructions for use :

Apply on the dry and clean surface and immediately distribute evenly with a cloth over the whole surface. Always treat the whole surface and rub out the product several times to obtain a homogeneous treatment.

Remove all surplus of product after 5 to 10 minutes with a dry (paper) cloth.

Dry the surface and wipe it afterwards with a micro-fibre cloth.

Use: up to 30 m<sup>2</sup> per litre depending on the surface.

### B. Lithofin Protector

- ♦ impregnation product – contains solvents
- ♦ intensifies the colour
- ♦ suitable for polished and rough surfaces



Instructions for use :

Apply the product on the dry and clean surface and immediately distribute evenly with a roll (do not press on the roll!). Always treat the whole surface and roll out the product several times to obtain a homogeneous treatment. Remove all surplus of product after 10 minutes with a dry (paper)cloth. Dry the surface and wipe it afterwards with a micro-fibre cloth.

Use : ca. 20 to 35m<sup>2</sup> per litre

Advise : always treat the whole surface. The product does not protect the surface against acids.



### 3. Regular maintenance

Quartz compound stone can be perfectly maintained with **Lithofin MN Easy-Clean**.

Instructions : daily spray the product after cooking on the kitchen-top and leave it for 1 minute. Afterwards wipe the surface with a damp cloth.

For an occasional thorough cleaning use **Lithofin MN Power Clean**.







## ***MAINTENANCE OF KITCHEN-TOPS IN UNISTONE® (general)***

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For kitchen tops in composite material, generally the same rules apply as for kitchen tops in natural stone. Compound stone is nevertheless more compact, and therefore it is much harder to put an extra impregnation product on polished surfaces. On honed and “rougher” surfaces, an extra impregnation product is recommended as preventive treatment against stains.

Since compound material consists of a mixture of resin and aggregate-grains, it is very important NOT to use strong solvents on such surfaces!



### **1. First cleaning**

After installation it is better to clean the whole surface with a strong cleaner (for example Lithofin MN POWER CLEAN) before applying an impregnation product. With acetone, the surface can be cleaned from more greasy stains or stains from installation products (silicones,...).



## 2. Protective treatments

**Impregnation products** enter the pores of the surface and make the surface only water-repellent (hydrophobic), or water- and oil-repellent (hydro- and oleo phobic). The product must be applied in a homogeneous manner on a **dry and clean surface**.

- ★ For **polished compound stone surfaces** it is mostly not necessary to put an extra impregnation product since the surface is very compact. When an impregnation product is wanted, one can better use Lithofin PROTECTOR.
- ★ For **honed, Letano,... compound stone surfaces** it is recommended to use an extra impregnation product, for example Lithofin MN PROTECTOR W for Composite or Lithofin STAINSTOP W.

For such compact surfaces it is very important to remove the surplus of impregnation product from the surface (see also instructions on the packaging of the supplier).

It is important that the surface is **completely saturated**. This can be easily checked putting some water on the surface 24 hours after impregnating. When the surface becomes darker after 15-20 minutes, the surface is not yet fully saturated, and extra impregnation is necessary.

## 3. Removal of stains and regular maintenance

Lots of “stains” on compound stone material are stains ON TOP of the surface (since the material is so compact). Such stains can mostly be removed with CIF Cream (white, neutral) or VIM (the latter is not suited for polished surfaces), or with for example Lithofin MN POWER CLEAN. More stubborn stains can eventually be removed with Lithofin WEXA (ATTENTION: let the latter product max. 5 minutes in contact with the surface and afterwards rinse well with water!).

On polished surfaces and surfaces with a limited absorption, it is not recommended to maintain with greasy products (for example certain types of soaps for doing the dishes). These create rather quickly a greasy layer on top of the surface, where ring marks of glasses,... are visible. When this “greasy” layer would be present, it can be removed with for example Lithofin MN POWER CLEAN.

The maintenance of kitchen tops can be done with a maintenance product that is not too greasy, like for example Lithofin EASY CLEAN, a spray for the maintenance-protection-cleaning of kitchen tops.

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