



**GRANITE | MARBLE  
TRAVERTINE | ENGINEERED STONES**

**PROTECTION MANUAL**  
*Protection guidelines for natural stones*





## OUR HISTORY

The company Bellinzoni, founded in 1937 in Milan (Italy), immediately stood out for research and development of innovative products with high quality profile, that accompanied the development of the stone market by providing solutions to the problems that have occurred over the years, in an almost centenary path. In order to fulfill this vision, continuous investments have been necessary in manufacturing facilities, modern and efficient research and development laboratories that gave innovative and certified instruments to the Company, while enhancing its legacy of knowledge. Starting from the first product, "Special Preparation for Polishing", still on the market, the Company has come to more than 50 currently available products, all dedicated to the protection, polishing, filling and maintenance of marble, granite, stone, terracotta, ceramics, metals and plastics. The presence on the relevant markets continued in quick steps, the Company established itself primarily in Italy and in Europe, up to today in over 80 countries worldwide thanks to its distribution network formed by direct branches, retailers, importers and supermarkets.

### WORLDWIDE

Argentina, Bahrain, Bangladesh, Belgium, Bolivia, Bulgaria, Canada, Czech Rep., China, Chile, Cyprus, Colombia, South Korea, Costa Rica, Croatia, Dominican Rep., Ecuador, Egypt, E.A.U., Estonia, Finland, France, Germany, Greece, Netherlands, Hong Kong, Hungary, India, Indonesia, Iran, Israel, Japan, Jordan, Kuwait, Libano, Luxembourg, Macau, Makedonia, Malaysia, Malta, Mauritius, Morocco, Mexico, Moldavia, Nigeria, Norway, New Zealand, Oman, Panama, Peru, Poland, Portugal, Portorico, Qatar, Romania, Russia, Saudi Arabia, Slovak Rep., Slovenja, Spain, Sri Lanka, South Africa, Switzerland, Taiwan, Thailand, Tunisia, Turkey, Uganda, Ukraine, Uruguay, Venezuela, Vietnam, Yemen.

### DETAILS

30 Countries Bellinzoni® trademark registered  
90 Destinations in the world  
122 Container loaded (2015) 20' ft.  
25 Exhibitions every year (worldwide)

## PRODUCTION LINES



### PROTECTIVES

Complete range of protectives for marble, granite, quartz and stones surfaces



### POLISHERS

Range of polishers for marble, granite, quartz stone surfaces and floors.



### ADHESIVES

Range of mastics for the grouting, smoothing, glueing and sealing of marble, granite, quartz, stones floors and surfaces.



### CLEANERS

Range of cleaners for the maintenance of marble, granite, quartz and stones.



### PROBLEM SOLVING

Range of products suitable for removing spots and rust on marble, granite, quartz and stones surfaces and floors.



### BUILDING PRODUCTS

Range of products suitable for construction on natural stones.



OUR CERTIFICATES

## MATERIALS

### CHEMICAL COMPOSITIONS

Chemical compositions of natural stones are very different. The way of maintenance and the chemical products that should be used vary depending on stones composition. Basically it is possible to divide stones into three main categories:



### GRANITES

According to commercial classification, granites are silica based stones formed from magma solidification at high temperature and pressure.

They have grains from compact to medium, with high hardness properties (6-7 of Mohs scale) and high mechanical resistance.

They therefore have high resistance against wear and tear, to atmospheric agents, to acids and pollution.



### MARBLES

Marbles actually are stones with crystalline calcareous structure that were formed at high pressure and at a temperature of 400°C approx.

Their characteristics are the diversity of tonality and grain components (fine, medium, big) and the variety of colours, tonality hues: pink, yellow, grey, green, red, black etc.

Their hardness is lower than granite's (3-4 of Mohs scale).

### TRAVERTINE AND SEDIMENTARY STONES

Travertine is a very porous sedimentary calcareous stone, formed by deposit of calcium carbonate and further decomposition of vegetable components mixed in their formation.

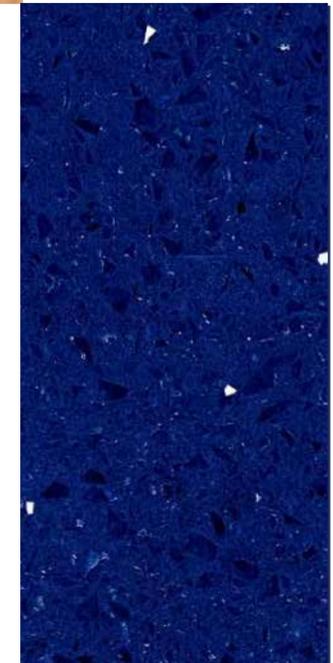
It has reasonably good mechanical properties and easy workability due to its low hardness and some types can be polished. Their colour is generally light yellowish but there are some darker and of different colour as well. Other sedimentary stones are of calcareous nature (limestone), widespread in many varieties, and sandstone.



### ENGINEERED STONES

Engineered stones are also defined "artificial stones". They are generally composed of 93% quartz/silica sand or marble (in chips or in powder) and 7% polyester resin as bonding.

Nowadays the major production is with quartz/silica sand as major component plus others materials added like glass, mirrors, shells, metals etc.



### OTHER NATURAL STONES

There is a variety of natural stone used as decorative dimensional stones such as slate, porphyry, basalt, lava stones etc., that are maintained as above mentioned natural stones.



# GUIDE TO THE CHOICE OF PROTECTIVE PRODUCTS

## ACTION ON COLOR

### NULL COLOR EFFECT

#### NATURAL



A special "natural" effect that **LEAVES THE COLOR AND ORIGINAL APPEARANCE** of the stone unaltered while at the same time providing optimal protection.

**+**  
WATER AND OIL PROTECTION



**PEARL EFFECT**  
**NANOTECH**  
**+**  
**FOOD SAFE**  
**FOOD SAFE**  
**FOOD SAFE**



### COLOR INCREASE

#### WET EFFECT



In order to enhance the beauty of marbles, granites and stones, it is possible to use "wet effect" **PROTECTIVE COATINGS** THAT, AFTER THEIR APPLICATION, **ENHANCE THE ORIGINAL COLOR OF SURFACE, INCREASE NUANCE OF VEINS, INTENSIFY THE COLOR DEPTH.**

**+**  
WATER AND OIL PROTECTION



**+**  
**ENHANCER**  
**+**  
**FOOD SAFE**  
**FOOD SAFE**



LIMESTONE SANDSTONE

#### EXTRA DARK



**INTENSIFIES THE NATURAL COLOR OF MATERIAL,** can mask scratches, defects and imperfections of black/dark stones.

**+**  
WATER AND OIL PROTECTION



**+**  
**EXTRA DARK**  
**+**  
**FOOD SAFE**



#### DEEP ENHANCER



**INTENSIFIES THE COLOR AND GIVE AN ANTIQUE LOOK TO TROPICAL STONES.**

**+**  
WATER AND OIL PROTECTION



**+**  
**ENHANCER**  
**+**



#### ANTIQUING



**PARTICULAR LOOK OF "HISTORY" AND "VINTAGE"** that can be recreated by applying the specific protective, enhancing the original color, veins, and color depth.

**+**  
WATER AND OIL PROTECTION



**+**



#### TOTAL BLACK



**INTENSIFIES THE BLACK COLOR OF STONE,** allows to hide the scratches, defects and imperfections of black stones.

**+**  
WATER AND OIL PROTECTION

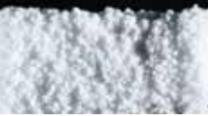


**+**



## ACTION ON STRUCTURE

BEFORE



AFTER



### CONSOLIDATING ACTION

Consolidating action for crumbly and corroded stones, **PREVENTION OF FLAKING AND CALCIFICATION CAUSED BY ATMOSPHERIC AGENTS, ACID RAIN AND SMOG.**

**+**  
WATER AND OIL PROTECTION



**+**  
**ANTI RESURFACING ACTION**



**+**  
WATER PROTECTION



### WATER AND OIL PROTECTION

Water and Oil protection, anti-stain, waterproof and breathable. Accumulations of water and oil on the surface are easily removable within the first 3 days. This property normally lasts from 3 to 5 years, depending on the type of product, material and exposure to weather conditions.



### INTENSIFYING AND EXTRA-DARKENING EFFECT

The darkening and extra-darkening effect are specific for highly absorbent stones; the products that give this effect are able to intensify color, mask scratches, flaws, and imperfections of the stone.



### PEARL EFFECT

Superficial "tension" action that allows to concentrate water, oil and other liquids in small "pearls", preventing penetration, thus facilitating cleaning.

### ANTI-RESURFACING ACTION

Anti-resurfacing action that contrasts mineral salts and impurities arising from the substrate and stone.



### NANOTECHNOLOGICAL MOLECULAR CHAIN

Research applied to technological innovation of raw materials has allowed to develop new products with molecular chains of nanometric dimensions, a feature that allows to penetrate more effectively in the surface and thus enhancing the water and oil repellency properties and duration of the treatment.





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