

# TECHNICAL DATA SHEET

## COSMOLITE \* MATERIA NUOVA



### COMPOSITION, PRODUCTION PROCESS AND APPLICATIONS

COSMOLITE is Stone Italiana's innovative Collection which is characterized by a highly productive advanced industrial process control aimed to obtain slabs for specialized uses in the field of furniture and sustainable buildings. The material is obtained by the vacuum vibro-compression of crushed inerts, different from quartz, mixed with 10-11% of polyester resin. **The inerts are 100% pre-consumer recycled minerals.** The polyester resin catalyzed by heat allows the slabs compaction in large format (307x144 cm). The product obtained allows different applications such as kitchen and vanity tops, stairs, interior furnishings etc.

### SIZE, THICKNESS AND WEIGHT

| SIZE cm          | THICKNESS cm | WEIGHT kg/m <sup>2</sup> |
|------------------|--------------|--------------------------|
| Slabs<br>307x144 | 2 cm         | 50 kg/m <sup>2</sup>     |

### COSMOLITE'S MAIN FEATURES

- High environmental vocation (100% recycled materials, low VOC emissions, reusable packaging)
- Unique and exclusive formulation
- Hypnotic and charming aspect
- Easy cleaning and maintenance
- High values of abrasion resistance
- High resistance to acid products
- High resistance to mechanical actions and physical (heat shock, compression, bending)
- High resistance to dry heat (180°C)
- Hygienic and suitable for food contact

STONE ITALIANA S.P.A.

Via Lavagno, 213 – 37040 Zimella – Verona Italy – Tel 39.0442 715715 – Fax 39.0442 715000 – stone@stoneitaliana.com – www.stoneitaliana.com  
 Capitale sociale Euro 10.000.000,00 versato Euro 8.570.099,95 – C.F. e n. Iscrizione Registro Imprese di Verona 00684880230 – P.IVA IT00684880230



## TECHNICAL CHARACTERISTICS

| Characteristics (1 cm thickness)     | European Standard | Unit                                     | Declared values  |
|--------------------------------------|-------------------|--|--|
| Water absorption                     | EN 14617-1        | %  | Class W <sub>4</sub>   |
| Flexural strength                    | EN 14617-2        | MPa                                      | Class F <sub>4</sub>   |
| Abrasion resistance                  | EN 14617-4        | mm                                       | Class A <sub>4</sub>   |
| Chemical resistance                  | EN 14617-10       | min C <sub>1</sub><br>max C <sub>4</sub> | C <sub>4</sub>   |
| Impact resistance                    | EN 14617-9        | Joule                                    | 3  |
| Resistance to dry heat               | EN 12722          | C°                                       | 180 C°   |
| Contact with food. Overall migration | UNI EN 1186       | mg/dm <sup>2</sup>                       | Distilled water 0,2<br>Acetic acid solution 3% 0,3<br>Ethanol 10% solution 0,5<br>Isooctane 0,9<br>Ethanol 95% 1,3 |

## TOP CLEANING & MAINTENANCE

| FINISHING  | CLEANING  | MAINTENANCE |
|--|---|-------------|
| <b>POLISHED</b><br><b>GRAIN 2.0</b><br><b>ROCFACE 2.0</b><br><b>ROCPAN 2.0</b> | <ul style="list-style-type: none"> <li>Stone Cleaner (neutral detergent)</li> <li>Stone Tile Cleaner (slightly acidic detergent)</li> </ul> | None        |

STONE ITALIANA S.P.A.

Via Lavagno, 213 – 37040 Zimella – Verona Italy – Tel 39.0442 715715 – Fax 39.0442 715000 – stone@stoneitaliana.com – www.stoneitaliana.com  
 Capitale sociale Euro 10.000.000,00 versato Euro 8.570.099,95 – C.F. e n. Iscrizione Registro Imprese di Verona 00684880230 – P.IVA IT00684880230



## GREEN VISION

### ECO RESPONSIBILITY

The production process and the continuous research have allowed Stone Italiana, during the years, to recycle and upgrade industrial solid waste such as glass, mirror, granite. Today more than ever, the Company is experimenting the upcycling through the combination of different recycled materials, with the final objective of creating a new material that can give new life to industrial waste. Moreover, only 10-11% of the composition of the product is a polymeric binder and part of it originates from renewable vegetable sources obtained from non-Genetically Modified (non-GM) and Identity-Preserved (IP) plants.

### BIO RESPONSIBILITY

#### GREENGUARD GOLD

Stone Italiana materials are safe for humans and the environment as they do not release VOCs (harmful Volatile Organic Compounds). Thus, Stone Italiana is GREENGUARD and GREENGUARD GOLD certified. These are product Certifications that ensure and guarantee that the building materials, furnishings and finishing systems are "low emission" of particles and substances such as VOC and SOV in internal environment. All Stone Italiana materials meet the strict criteria set by the GreenGuard Certification program.

All Stone Italiana products GREENGUARD and GREENGUARD GOLD certified are tested for their "performances" for the emissions of chemicals indoor; besides, the production processes are managed and controlled through a production management system UNI EN ISO 9001:2015 which ensures the maintenance of the stated objectives for the emissions.

#### NSF 51 "FOOD ZONE" – FOOD CONTACT COMPLIANCE

Stone Italiana materials are naturally BACTERIOSTATIC and "food contact proof" therefore suitable for household use (kitchen counters) and food preparation areas. Stone Italiana products are FDA (Food & Drugs Administration) approved to meet the NSF 51 FOOD ZONE standard.

NSF (National Sanitation Foundation) is the largest organization in the world in the field of verification and certification of products and materials intended for contact with food.

Stone Italiana materials have obtained the prestigious mark NSF / ANSI Std 51 (National Sanitation Foundation - Food Equipment Materials) ensuring the suitability for food contact. Like all materials NSF Standard 51 certified, they meet stringent chemical analysis to ensure purity of the substances used in their manufacture.

### SUSTAINABLE RESPONSIBILITY

Stone Italiana manufacturing processes protect the environmental balance and comply with the most strict environmental and work Regulations. Stone Italiana has been continuously committed to minimizing the use of harmful substances in the manufacturing process, as well as to controlling VOC emissions, reducing waste, using recyclable packaging, reducing energy and water consumption and recycling process water.

STONE ITALIANA S.P.A.

Via Lavagno, 213 – 37040 Zimella – Verona Italy – Tel 39.0442 715715 – Fax 39.0442 715000 – stone@stoneitaliana.com – www.stoneitaliana.com  
Capitale sociale Euro 10.000.000,00 versato Euro 8.570.099,95 – C.F. e n. Iscrizione Registro Imprese di Verona 00684880230 – P.IVA IT00684880230





## LEED V4

Stone Italiana through GreenMap activated a path aimed at gathering, implementing and making available to the market the sustainability features of Stone Italiana's products, by using the international metric LEED® which is known in more than 160 Countries in the world. In particular, Stone Italiana's products can contribute toward **LEED V4 credits** in the following areas:

- **INTEGRATIVE PROCESS**
- **MATERIALS AND RESOURCES**
- **INDOOR ENVIRONMENTAL QUALITY**
- **INNOVATION**

LEED® - Leadership in Energy and Environmental Design - is the Part III Certification System of sustainable buildings, among the most popular in the world. It is designed for all types of constructions and all stages of development: it is a voluntary consensus-based System, internationally recognized, ensuring the Part III Certification to a building or complex designed and built by adopting strategies to improve their performances in areas such as energy saving, reduction of efficiency emissions, internal environmental quality and resource management, towards a global reduction of impacts.

LEED V4 is oriented towards a rigorous and at the same time flexible approach, based on performance and measurable results through the life cycle of a building. Certification is supported by a check-list that includes different performance categories: IP Integrative Process, SS Sustainable Sites, LT Location & Transportation, WE Water Efficiency, EA Energy & Atmosphere, MR Materials and Resurgences, EQ Indoor Environmental Quality, IN Innovation, RP Regional priority. The System pays great attention to building materials, deepening the knowledge of the supply chain to measure the overall impact in terms of benefits for people and the environment.

STONE ITALIANA S.P.A.

Via Lavagno, 213 – 37040 Zimella – Verona Italy – Tel 39.0442 715715 – Fax 39.0442 715000 – stone@stoneitaliana.com – www.stoneitaliana.com  
Capitale sociale Euro 10.000.000,00 versato Euro 8.570.099,95 – C.F. e n. Iscrizione Registro Imprese di Verona 00684880230 – P.IVA IT00684880230





DAL 1979 TECNOLOGIA E DESIGN DEL QUARZO



# STONE ITALIANA CONTRIBUTION MATRIX TO LEED V4 BD+C

## INTEGRATIVE PROCESS

IP CREDIT INTEGRATIVE PROCESS

## MATERIALS AND RESOURCES

MR PREREQUISITE CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT PLANNING

MR CREDIT CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT

MR CREDIT BUILDING LIFE CYCLE IMPACT REDUCTION

➔ OPTION 4 WHOLE BUILDING LIFE CYCLE ASSESSMENT

[EPD]

MR CREDIT BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION - ENVIRONMENTAL PRODUCT DECLARATION

➔ OPTION 1 ENVIRONMENTAL PRODUCT DECLARATION

[EPD]

MR CREDIT BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION - SOURCING OF RAW MATERIALS

➔ OPTION 1 RAW MATERIAL SOURCE AND EXTRACTION REPORTING

[SELF DECLARED REPORT]

➔ OPTION 2 LEADERSHIP EXTRACTION PRACTICES

[RECYCLED CONTENT]

MR CREDIT BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION - MATERIAL INGREDIENTS

➔ OPTION 2 MATERIAL INGREDIENT OPTIMIZATION

[REACH OPTIMIZATION]

## INDOOR ENVIRONMENTAL QUALITY

EQ CREDIT LOW EMITTING MATERIALS

[GREENGUARD GOLD CERTIFICATION]

EQ CREDIT CONSTRUCTION AIR QUALITY MANAGEMENT PLAN

[GREENGUARD GOLD CERTIFICATION]

## INNOVATION

IN INNOVATION 100% NEW MATERIAL - RECYCLED CONTENT

STONE ITALIANA S.P.A.

Via Lavagno, 213 – 37040 Zimella – Verona Italy – Tel 39.0442 715715 – Fax 39.0442 715000 – stone@stoneitaliana.com – www.stoneitaliana.com  
Capitale sociale Euro 10.000.000,00 versato Euro 8.570.099,95 – C.F. e n. Iscrizione Registro Imprese di Verona 00684880230 – P.IVA IT00684880230





DAL 1979 TECNOLOGIA E DESIGN DEL QUARZO

## MATERIAL COMPOSITION

| PRODUCT                                  | % COMPONENTS              | ORIGIN AND PROCESSES              |
|--|---------------------------|-----------------------------------|
| <b>COSMOLITE</b><br><b>Materia Nuova</b> | Recycled minerals 87-88%  | 100% pre-consumer recycled inerts |
|  | Polyester resin 10-11%    | Industrial production             |
|  | Pigments & additives 1-3% | Industrial production             |

Rev. 2/2022

STONE ITALIANA S.P.A.

Via Lavagno, 213 – 37040 Zimella – Verona Italy – Tel 39.0442 715715 – Fax 39.0442 715000 – stone@stoneitaliana.com – www.stoneitaliana.com  
 Capitale sociale Euro 10.000.000,00 versato Euro 8.570.099,95 – C.F. e n. Iscrizione Registro Imprese di Verona 00684880230 – P.IVA IT00684880230

