

## DRIED PUMICE 0-200 µm

### **COMPOSTION:** NATURALLY EXPANDED AND KILN DRIED ALVEOLAR MAGMATIC MINERAL

PUMICE is the result of the natural extension of effusive magmatic mineral that has generated an alveolar product of remarkable lightness, with high porosity, great water retention, slow release of liquids and high thermal and acoustic insulating properties.

The advantage of having a naturally expanded lightweight product involves maintaining the open cell alveolar structure, a unique feature of the pumice extracted in the Tuscany and Lazio mining area.

The subsequent kiln drying and screening enables a product, DRIED PUMICE, to be obtained that is free from natural humidity and suitable for many fields of application.

### FIELDS OF APPLICATIONS

|                                                          |                                                                             |
|----------------------------------------------------------|-----------------------------------------------------------------------------|
| LIGHTWEIGHT INERT FOR MORTARS AND PREMIXED PRODUCTS      | SUPPORT FOR CHEMICAL PRODUCTS, PAINTS AND VARNISHES, STUCCOES AND ADHESIVES |
| FILTRATION AND ABSORPTION OF INDUSTRIAL OILS AND LIQUIDS | SOFT ABRASIVES                                                              |
| PAINTS AND COATINGS                                      | THERMAL INSULATION AND DEHUMIDIFYING PLASTERS                               |
| HAND CLEANER PASTE                                       | DENTISTRY                                                                   |

### **PHYSICAL AND CHEMICAL PROPERTIES:**

Thermal conductivity:  $\lambda = 0,11 \text{ W/(mK)}$  <sup>(1)</sup>

High thermal and acoustic insulating

Transpiration

Excellent workability

Fire-resistant

Durability

Apparent density: 550 - 600 Kg/m<sup>3</sup>

Residual moisture: < 2 %

Residue greater than 200 µm: 1%

### MEDIUM CHEMICAL ANALYSIS

of representative samples of the front quarry

|                                |              |
|--------------------------------|--------------|
| SiO <sub>2</sub>               | 56,8 % ± 5 % |
| Al <sub>2</sub> O <sub>3</sub> | 18,8 % ± 5 % |
| K <sub>2</sub> O               | 8,0 % ± 5 %  |
| Fe <sub>2</sub> O <sub>3</sub> | 4,2 % ± 5 %  |
| CaO                            | 4,5 % ± 5 %  |
| Na <sub>2</sub> O              | 1,9 % ± 5 %  |
| TiO <sub>2</sub>               | 0,5 % ± 5 %  |
| MgO                            | 1,6 % ± 5 %  |
| P <sub>2</sub> O <sub>5</sub>  | 0,1 % ± 5 %  |
| MnO                            | 0,1 % ± 5 %  |
| P.F.                           | 3,9 % ± 5 %  |
| pH                             | 7-8          |

### **LIQUID ABSORPTION**

for 100 or of dried Pumice:

Water approx. 100 gr

Lubricant oil 110 gr

Diesel fuel and Gasoline 80 gr

**Imperial Measurements:** Grain size: 70- US Mesh. Apparent density 34.34-37.46 lb/ft<sup>3</sup>. Residue greater than 125 US Mesh 1%. Liquid absorption for 0.22 lb. of Dried Pumice: approx. Water 0.22 lb. - Lubricant oil 0.24 lb.- Diesel fuel and Gasoline 0.18lb.

**NON-TOXIC PRODUCT:** Mineral containing no active limestone and no Free Crystalline Silica

AVAILABLE BULK, in BIG-BAGS of 550 kg (1213 lb), in BAGS of 20 kg (44.09 lb/each)

STORAGE: store the product in a sheltered and dry place

*This mineral is a natural raw material. All data indicated above are average production values and do not provide any warranty.*

<sup>(1)</sup> Certificated by Politecnico di Torino n. 1447/04

<sup>(2)</sup> The specific weight is indicative and is referring to average values in batches of industrial production. Possible variations are a result of potential phenomena of segregation between the fine and gross parts.