

## VULCASOIL®

### VOLCANIC SUBSTRATE FOR GRASS LAWNS

#### COMPOSITION:

Volcanic substrate consisting of a mixture of natural volcanic minerals (pumices and lapilli, of which 25% is volcanic lapillus sand and 75% is pumice sand), organic matter (blond peat with fine particle size) and/or organic matter with humus (composted vegetable material) and mixture of slow release fertilizer pellets.

#### APPLICATION FIELDS:

- Grass lawns
- Sowing seeds
- Sports fields
- Greenery management and maintenance

#### PHYSICAL AND CHEMICAL PROPERTIES:

- Specific weight: from 950 to 1,000 kg/m<sup>3</sup> at quarry humidity (*from 59.31 to 62.43 lb/ft<sup>3</sup>*)
- Particle size: range within the requirements of ex DIN from 0 to 3 mm (*6- US Mesh*), with particle diameters between 0 and 0.02 mm (*between 0 and 0.008 in*) less than 7%
- Permeability: more than 0.6 mm/min. (*0.024 inch/min*) when saturated and pressed; more than 6 mm/min. (*0.24 inch/min*) in standard conditions, in compliance with ex DIN: >0.4 and >1mm/min. (*>0.016 and >0.04 in/min*)
- Water retention (available/usable water): from 15% to 20% by volume
- pH: between 6 and 7.5
- Organic materials: 15% V.V.
- C.E.C. (Cation Exchange Capacity): approx 30mEq/100g (*30 mEq/0.22lb*)

| Medium chemical analysis       | PUMICE | LAPILLUS |
|--------------------------------|--------|----------|
| SiO <sub>2</sub>               | 62,5 % | 56 %     |
| Al <sub>2</sub> O <sub>3</sub> | 17,5 % | 16,5 %   |
| K <sub>2</sub> O               | 9,5 %  | 4,9 %    |
| Fe <sub>2</sub> O <sub>3</sub> | 2,6 %  | 6,5 %    |
| CaO                            | 2,5 %  | 8,8 %    |
| Na <sub>2</sub> O              | 2,2 %  | 2,2 %    |
| TiO <sub>2</sub>               | 0,5 %  | 0,8 %    |
| MgO                            | 0,4 %  | 3,1 %    |
| pH                             | 7 - 8  | 7 - 8    |

The corresponding **Imperial Measurements** are shown in brackets

Contains no active limestone and no Free Crystalline Silica.

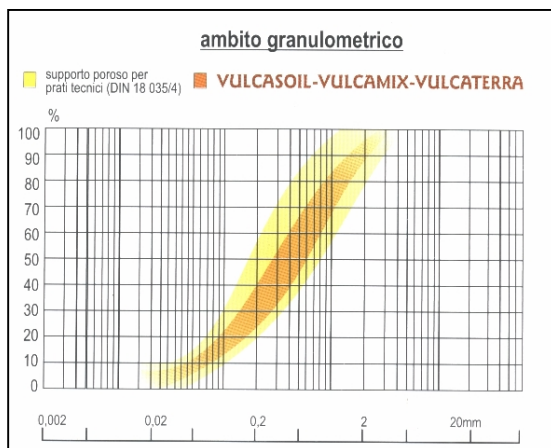
#### FUNCTIONAL PROPERTIES:

**VULCASOIL** is a porous support that is ideal for lawns and sports facilities and is suitable for all construction techniques, in compliance with ex DIN standards in all variations, with STRI standards and USGA reinforced and vertical drainage systems.

**VULCASOIL** is ready-to-use and easy to lay.

**VULCASOIL** is a volcanic soil ideal for the preparation of a seed bed and for laying lawn turf and is ideal for preparing fertile drainage layers for root development.

**VULCASOIL** replaces and/or integrates silica sand, achieving optimal results, when treating and resurfacing grass lawns (top dressing) and it contributes to the formation of lawns suited to intensive use (up to 500 hours/year).



AVAILABLE BULK, IN BAGS (BIG-BAGS) 1.5 MC (53 ft<sup>3</sup>) SIZE AND IN 33LT (7.26 gal) BAGS PACKED ON PALLETS (45 bags/each).

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

## CONSTRUCTION DIAGRAMS FOR SPORT FIELDS



### SCHEMI COSTRUTTIVI PER CAMPI SPORTIVI CON VULCAMIX E VULCASOIL

#### CONSTRUCTION DIAGRAMS FOR SPORTS FIELDS WITH VULCAMIX AND VULCASOIL

Miglioramento delle caratteristiche chimico-fisiche e drenanti del terreno:

- riporto di 5 cm di Sabbia di Pomice o Vulcamix
- lavorazione con erpice rotante per miscelare le sabbie vulcaniche con il terreno
- top dressing con 5 cm di Vulcasoil
- semina o posa in opera di prato in zolle

Improving the chemical-physical and soil drainage characteristics:

- 5 cm (2 inches) layer of Pumice Sand or Vulcamix spread over the surface
- working the plot with a rotating harrow to blend the volcanic sand with the soil
- top dressing with a 5 cm (2 inches) layer of Vulcasoil
- sowing or laying lawn turf

#### SCHEMA 1



Miglioramento delle caratteristiche chimico-fisiche e drenanti del terreno:

- riporto di 5 cm di Sabbia di Pomice o Vulcamix
- operazione di carotatura profonda con macchina vertidrain
- top dressing con 6-7 cm di Vulcasoil
- semina o posa in opera di prato in zolle

Improving the chemical-physical and soil drainage characteristics:

- 5 cm (2 inches) layer of Pumice Sand or Vulcamix spread over the surface
- deep drilling operation with vertidrain machine
- top dressing with a 6-7 cm (236-275 inches) layer of Vulcasoil
- sowing or laying lawn turf

#### SCHEMA 2



Nuova costruzione di campo sportivo a doppio strato drenante e di radicazione:

- formazione di drenaggi rinforzati con tubo dreno riempiti con ghiaia di Lapillo Vulcanico
- formazione dello strato drenante con riporto su tutta la superficie di 15 cm di ghiaia lapillo
- formazione dello strato fertile con riporto su tutta la superficie di 15 cm di Vulcasoil
- semina o posa in opera di prato in zolle

New construction of a sports field with a double-layer for drainage and root development:

- formation of reinforced drainages with drainage tubes filled with Volcanic Lapillus gravel
- formation of the drainage layer by spreading a 15 cm (6 inches) layer of Volcanic Lapillus gravel over the entire surface
- formation of the growing media by spreading a 15 cm (6 inches) layer of Vulcasoil over the entire surface
- sowing or laying lawn turf

#### SCHEMA 3



Nuova costruzione di campo sportivo con sistema a trincea drenante:

- formazione di drenaggi principali trasversali con tubo dreno riempiti con ghiaia di Lapillo Vulcanico
- formazione di drenaggi superficiali longitudinali riempiti con Lapillo Vulcanico o Vulcamix
- formazione dello strato fertile con riporto su tutta la superficie di 5-10 cm di Vulcasoil
- semina o posa in opera di prato in zolle

New construction of sports field using the trench drain system:

- formation of transversal main drainages with drainage tubes filled with Volcanic Lapillus gravel
- formation of longitudinal surface drainages filled with Volcanic Lapillus or Vulcamix
- formation of the growing media by spreading a 5-10 cm (2-4 inches) layer of Vulcasoil over the entire surface
- sowing or laying lawn turf

#### SCHEMA 4



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