

VULCAFLOR

Substrate in accordance to UNI 11235 standard green cover

VOLCANIC SUBSTRATE FOR ROOF GARDENS, URBAN STREET FURNITURE AND VERTICAL GREENERY

COMPOSITION VULCAFLOR INTENSIVE:

Fertile volcanic substrate consisting of a mixture of natural volcanic materials (pumices and lapilli of which approximately 70% volcanic lapillus and 30% pumice) with a grain size of 0-10 mm (3/8"- US Mesh), organic substance (like blonde peat of medium grain size) and/or organic substance with humus (on request) and mixture of slow release fertilizer pellets.

COMPOSITION VULCAFLOR EXTENSIVE:

Fertile volcanic substrate consisting of a mixture of natural volcanic materials (pumices and lapilli of which approx 90% volcanic lapillus and 10% pumice) with a grain size of 0-10 mm (3/8"- US Mesh), organic substance like blond peat of medium grain size.

COMPOSITION VULCAFLOR LIGHT:

Fertile volcanic substrate consisting of a mixture of natural volcanic materials (pumices and lapilli of which approximately 20% volcanic lapillus and 80% pumice) with a grain size of 3-7 mm (5/16"x6 US Mesh), organic substance (like blonde peat of medium grain size) and/or organic substance with humus (on request) and mixture of slow release fertilizer pellets.

COMPOSITION VULCAFLOR ZEO:

Fertile volcanic substrate consisting of a mixture of natural volcanic materials (pumices, lapilli and zeolites in a percentage of approximately 20%), organic substance such as blonde peat of medium grain size and mixture of slow release fertilizer pellets.

TYPES AND FUNCTIONAL PROPERTIES

- **VULCAFLOR INTENSIVE** for usable roof gardens
- **VULCAFLOR EXTENSIVE** for lightweight roof gardens requiring reduced maintenance
- **VULCAFLOR LIGHT** pumpable for usable intensive roof gardens
- **VULCAFLOR ZEO** for INTENSIVE green roofs; with high C.E.C. and the function of improving the development of the root system and the physical-chemical fertility; reduction of fertilizer use and excess acidity and salinity.
- **VULCAFLOR** is a finished product, soft textured, free from toxic or dangerous substances and weed seeds.
- **VULCAFLOR** is an ideal substrate for the construction of green roofs, flower boxes and every type of realization in the green where a reduced intervention of maintenance is required.

APPLICATION FIELDS:

- Grass lawns
- Vertical greenery
- Hanging gardens
- Greenery management and maintenance
- Urban street furniture

PHYSICAL AND CHEMICAL PROPERTIES:

- Specific weight / Density at quarry humidity: V. Intensive, Extensive and ZEO 950 - 1,050 Kg/m³ (59.31 - 65.55 lb/ft³); V. Light 700 - 800 Kg/m³ (43.70 - 49.95 lb/ft³)
- Weight of water saturated material (dry material + H₂O pF0,7): approx. 1,300 Kg/m³ (81.16 lb/ft³) for V. Intensive and Extensive; 1,200 Kg/m³ (74.91 lb/ft³) for V. Light; 1,400 Kg/m³ (87.40 lb/ft³) for V. ZEO
- Grain size: between 0 to 15 mm (5/8"- US Mesh)
- Infiltration speed: higher than 25 mm/min. (higher than 1 US Mesh)
- Water storage capacity for 1 cm (0.4 inch) on site at pF0.7: > 4.5 l/cm (> 2.475 gal/in) for V. Extensive and ZEO; > 5 l/cm (> 2.75 gal/in) for V. Intensive and > 6 l/cm (> 3.3 gal/in) for the V. Light
- pH: V. Extensive and ZEO between 6 and 7.5; V. Intensive and Light between 6 and 7
- Organic substance (% m/m s.s): >1.5 % for V. Extensive and ZEO, >3.5 % for V. Intensive, >4.5 % for V. Light
- C.E.C. (Cation Exchange Capacity): approx. 20 mEq/100g for V. Intensive, 10 mEq/100g for V. Extensive, 25 mEq/100g for V. Light, 30 mEq/100g for V. ZEO (30 mEq/ 0.22 lb)
- Contains no active limestone and no Free Crystalline Silica (non-toxic product).

The corresponding Imperial Measurements are shown in brackets.

V. EXTENSIVE, INTENSIVE AND ZEO ARE AVAILABLE BULK, IN BAGS (BIG-BAGS) OF 1.5 MC (53 ft³) SIZE AND IN 33 LT BAGS PACKED ON PALLETS (45 bags/each). V. LIGHT IS AVAILABLE BULK, IN BAGS (BIG-BAGS) OF 1.8 MC (64 ft³) SIZE AND IN 33 LT BAGS PACKED ON PALLETS (55 bags/each)

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