

# **Farm**

Substrates for inner-city allotments



# Harvesting in the city

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Strawberries from the roof terrace or lettuce from the backyard.
Growing food locally, exactly where its needed - that's the promise of urban farming. In the morning it might still be in the earth, but in the afternoon will it already be on the table? This is definitely possible.

Vulkafarm® Plant substrates make it possible to produce healthy food in the city that will still comply with the strict rules of the Fertilisers
Ordinance, the Soil Protection
Ordinance and the Drinking Water
Ordinance. Because of their
lava, pumice, peat and organic
aggregate composition, substrates
also prevent waterlogging and
retain large quantities of water for
the growing plants. Rapid rooting
and strong growth are the result.

### **Product overview**





#### Vulkafarm mineral

Mineral sub-substrate for farmed garden areas.

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## Vulkafarm organic

Mineral-organic universal substrate for farmed garden areas.

on page 129



### Vulkafarm plus

Mineral-organic universal substrate with an enriched organic content.

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#### **Composition:**

Natural product (igneous stone mixture) consisting of augite, olivine, magnetite, limonite and biotite

# Vulkafarm mineral

Mineral sub-substrate for farmed garden areas.

#### Details:

- Lava and pumice as base components
- · No layer thickness restrictions
- · Very well suited for permanent plantings
- Vulkafarm mineral is not fertilized, but can on request be mixed with fertilizer
- Deliverable as bulk material, in a silo lorry, big bag or in sacks

#### **Application areas:**

- Roof greening
- Tub
- High beds
- · Balcony boxes
- Urban farming
- Soil replacement in the event of poor soil conditions
- Mixing components in the event of poor soil conditions

#### Additional information:

- Certificates
- Product data sheets

This additional material is available for download at:

www.vulkatec.de

Grain size (ø in mm)	0-12
Particle size distribution (percentage of total mass in %)	
Blowable components	≤10
Fine / medium gravel	30-60
Volume weight (t/m³)	
Delivery condition DIN EN 1097-3	0.95-1.00
At max. water capacity, compacted	1.40-1.60
Water/air balance, compacted	
Maximum water capacity	20-30 vol. %
Water permeability mod. $K_{\rm f}$	0.60-150 mm/min
pH value	6.8-7.5
Salinity	0.1-1.5 g/l

128 Phone: +49 2632 9548-0 Fax: +49 2632 9548-20 info@vulkatec.de www.vulkatec.de



#### **Composition:**

Natural product; Eruptive stone mixture, consisting of augite, olivine, magnetite, limonite, biotite, clays of various types, enriched with compost

# Vulkafarm® organic

Mineral-organic universal substrate for farmed garden areas.

#### Details:

- Basic components: Lava, pumice, sand and compost, on request also with peat
- · Suitable for permanent plantings
- Vulkafarm 0-4 can be lain up to 45 cm thick Vulkafarm 0-6 can be lain up to 35 cm thick
   For greater laying thicknesses, Vulkafarm mineral can also
- be used as a mineral sub-substrate

   Vulkafarm 0-4 and 0-6 are not fertilized, but can be mixed
- with fertilizer on requestDeliverable as bulk material, in big bags or in sacks
- Vulkafarm 0-4 can also be delivered from silo trucks

#### **Application areas:**

- Roof greening
- Tub
- High beds
- · Balcony boxes
- Soil replacement in the event of poor soil conditions
- Urban farming

#### Additional information:

- Certificates
- Product data sheets

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Grain size (ø in mm)	0-4	0-6
Particle size distribution (percentage of total mass in %)		
Blowable components	10-20	10-20
Fine / medium gravel	20-40	20-40
Volume weight (t/m³) Delivery condition DIN EN 1097-3 At max. water capacity, compacted	0.80-0.90 1.25-1.40	1.00-1.10 1.60-1.85
Water/air balance, compacted		
Maximum water capacity	45-55 vol. %	40-50 vol. %
Water permeability mod. $K_{\rm f}$	0.3-20 mm/min	0.6-20 mm/min
pH value	6.5-7.2	6.8-7.5
Salinity	0.5-1.5 g/l	0.5-1.5 g/l

















Building



#### Composition:

Natural product; Eruptive stone mixture, consisting of augite, olivine, magnetite, limonite, biotite, clays of various types, enriched with compost and/or peat

### Vulkafarm® Plus

Mineral-organic universal substrate for kitchen garden areas with enriched organic content.

#### Details

- Lava, pumice, sand and compost as base components
  On request also with peat
- Can be lain up to 35 cm thick. In the case of larger laying thicknesses, Vulkafarm mineral can be used as a sub-substrate
- · Not suitable for permanent plantings
- Compared to Vulkafarm 0-6 it has a higher water retention capacity and an improved nutrient buffering = reduced maintenance requirements + faster growth for many crops
- Vulkafarm 0-6 Plus is not fertilized, but can be mixed with fertilizer on request
- Deliverable as bulk material, in big bags or in sacks

#### **Application areas:**

Roof greening

· Balcony boxes

• Tub

 Soil replacement in the event of poor soil conditions

High beds

#### Additional information:

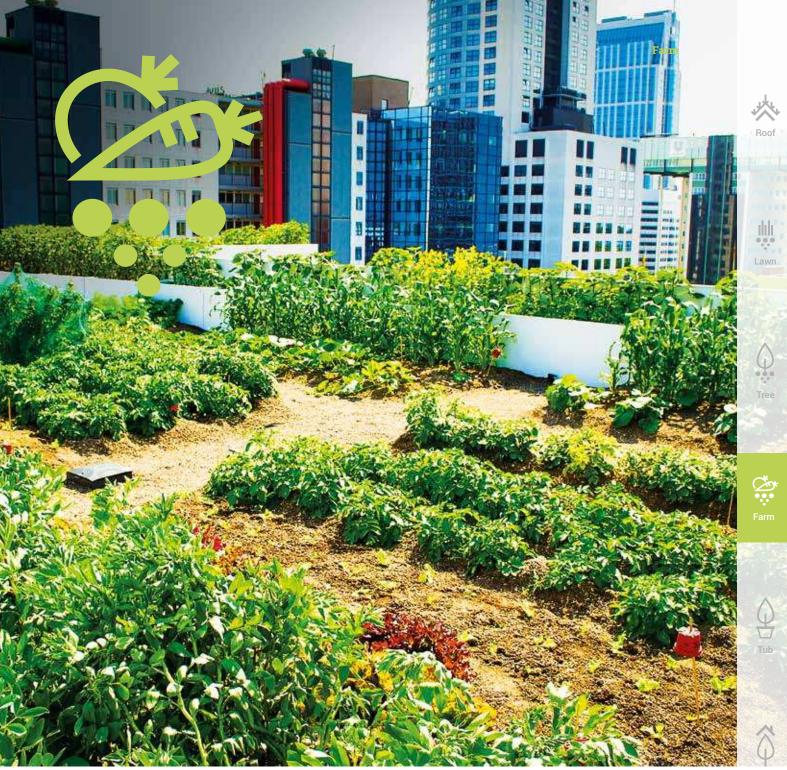
- Certificates
- · Product data sheets

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www.vulkatec.de

<b>Grain size</b> (ø in mm)	0-6
Particle size distribution (percentage of total mass in %)	
Blowable components	10-20
Fine / medium gravel	20-40
Volume weight (t/m³)	
Delivery condition DIN EN 1097-3	0.95-1.10
At max. water capacity, compacted	1.60-1.85
Runoff curve number C	
Water/air balance, compacted	
Maximum water capacity	45-60 vol. %
Water permeability mod. $K_{\rm f}$	0.3-15 mm/min
pH value	6.0-7.5
Salinity	0.5-1.5 g/l

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Source: Optigrün International AG

Interior

Experimental fruit and vegetable farm on a roof.



