



Tub

Substrates for
tub planting outdoors



Optimal growth in the smallest of spaces

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It doesn't necessarily have to be the big green roof: Each plant, whether in the flower box on the balcony or in a tub in the yard, contributes to the city being a much greener place to live.

Conventional potting soil in a tub, however, bacterially decomposes and compacts over the course of time. This has a negative impact on the surrounding air and reduces the available root space.

Because of their high mineral content, Vulka Kubo substrates prevent this and ensure a permanently stable and well-aerated root space. The admixture of RAL quality assured compost and xylitol ensures the long-term availability of a nutrient supply.

Product overview



Vulka Kubo mineral 0-12

Mineral outdoor potted plant substrate

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Vulka Kubo organic 0-12

Mineral-organic outdoor potted plant substrate.

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Vulka Kubo 0-4 and 0-8

Fine-grained, mineral and organic potted plant substrate.

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Vulkaflor®

Fine-grained potted plants substrate consisting of lava, pumice and zeolite.

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Cactus soil

Mineral or mineral-organic soil for succulent plants.

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Roof



Lawn



Tree



Farm



Tub



Interior



Pond



Building



0-12

Mineralisches Outdoor-Kübelpflanzensubstrat:

- Lava, pumice and sand as base components
- For systems with water storage and free drainage
- Offers stability for high growing plants due to the effective interlocking of the components
- No layer thickness restrictions
- Suitable for permanent plantings
- Not fertilized, but can be blended with fertilizer on request
- Delivery in sacks, big bags, as bulk or per silo truck

Vulka Kubo mineral 0-12

Grain size
(ø in mm)

0-12

Particle size distribution
(percentage of total mass in %)
Blowable components 1-15
Fine/medium gravel 30-60

Volume weight
(t/m³)
Delivery condition DIN EN 1097-3 0.90-1.00
At max. water capacity, compacted 1.35-1.60
Runoff curve number C

Water/air balance, compacted
Maximum water capacity 20-35 vol.%
Water permeability mod. K_f 60-150 mm/min

pH value 6.5-7.5
value 0.1-0.5 g/l



0-12

Mineral-organic outdoor potted plant substrate:

- Lava, pumice, Sand, xylitol and compost as base components
On request with peat
- For systems with water storage and free drainage
- Offers stability for high growing plants due to the effective interlocking of the components
- For thicknesses of up to 70 cm
- Well suited for permanent plantings due to the high mineral content
- Not fertilized, but can be blended with fertilizer on request
- Delivery in sacks, big bags, as bulk or per silo truck

Vulka Kubo organic 0-12

Grain size
(ø in mm)

0-12

Particle size distribution
(percentage of total mass in %)
Blowable components 8-15
Blowable components 30-40

Volume weight
(t/m³)
Delivery condition DIN EN 1097-3 0.95-1.10
At max. water capacity, compacted 1.40-1.70
Runoff curve number C

Water/air balance, compacted
Maximum water capacity 45-50 vol.%
Water permeability mod. K_f 0.3-15 mm/min

pH value 6.5-7.5
Salinity 0.1-1.0 g/l



0-4

Mineral-organic outdoor potted plant substrate:

- For systems with water storage and free drainage
- Stability of high growing plants due to excellent interlocking of the components
- For laying thicknesses of up to 45 cm.
In the case of higher thicknesses Vulka Kubo 0-12 mineral can also be used as a sub-substrate
- Suitable for permanent plantings due to its high mineral content
- Not fertilized, but can be blended with fertilizer on request
- Deliverable in sacks, big bags or as bulk

Vulka Kubo 0-4

Grain size (ø in mm)	0-4
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	0.80-0.90
At max. water capacity, compacted	1.25-1.40
Runoff curve number C	
Water/air balance, compacted	
Maximum water capacity	45-55 vol. %
Water permeability mod. K _r	0.3-20 mm/min
pH value	6.5-7.2
Salinity	0.5-1.0 g/l



0-6/8

Mineral-organic outdoor potted plant substrate:

- For systems with water storage and free drainage
- Stability of high growing plants due to excellent interlocking of the components
- For laying thicknesses of up to 45 cm.
In the case of higher thicknesses Vulka Kubo 0-12 mineral can also be used as a sub-substrate
- Suitable for permanent plantings due to its high mineral content
- Not fertilized, but can be blended with fertilizer on request
- Deliverable in sacks, big bags or as bulk

Vulka Kubo 0-6/8

Grain size (ø in mm)	0-6/8
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	1.00-1.10
At max. water capacity, compacted	1.60-1.85
Runoff curve number C	
Water/air balance, compacted	
Maximum water capacity	40-50 vol. %
Water permeability mod. K _r	0.3-15 mm/min
pH value	6.8-7.5
Salinity	0.5-1.0 g/l





2-5

Outdoor potted plants mineral substrate

- Lava, pumice and zeolite as base components
- For tub systems with water storage
- Offers stability for high growing plants due to the effective interlocking of the components
- Without any limits on laying thickness
- Suitable for permanent plantings due to its high mineral content
- Not fertilized, but can be blended with fertilizer on request
- Delivery in sacks, big bags, as bulk or per silo truck

Vulkaflor®

Grain size (ø in mm)

2-5

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	0.70-0.80
At max. water capacity, compacted	1.00-1.10
Runoff curve number C	

Water/air balance, compacted

Maximum water capacity	20-35 vol. %
Water permeability mod. K _f	200-400 mm/min

pH value

6.5-7.5

Salinity

0.1-1.0 g/l



0-12

Mineral or mineral-organic soil for succulent plants:

- Mineral blend:
Lava and pumice as base components.
On request also with peat
- Mineral-organic blend:
Lava, pumice and compost as base components.
On request also with peat
- Suitable for permanent plantings
- Not fertilized, but can be blended with fertilizer on request
- Delivery in sacks, big bags or as bulk

Cactus soil

Grain size (ø in mm)

0-12

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	0.80-0.90
At max. water capacity, compacted	1.20-1.30
Runoff curve number C	

Water/air balance, compacted

Maximum water capacity	20-35 vol. %
Water permeability mod. K _f	0.3-20 mm/min

pH value

6.5-7.5

Salinity

0.5-1.0 g/l



References



Roof



Lawn



Tree



Farm

KÖ-Bogen, Düsseldorf

Planting boxes in the courtyard of the fourth floor.



Tub



Interior



Pond



Building

Kameha Grand Hotel in Bonn

Planting of trees in over four metre high tubs.