



Tub

Substrates for
tub planting outdoors



Optimal growth in the smallest of spaces

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It doesn't have to be a large green roof. Every plant, whether in a flower box on the balcony or a pot in the courtyard, contributes to making the city a 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 tub plant substrate.

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Vulka Kubo 0-4 and 0-6

Fine-grained, mineral-organic outdoor tub plant substrate.

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Vulkaflor®

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

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Cactus substrate

Mineral or mineral-organic succulent substrate.

on page 138



Roof



Lawn



Tree



Farm



Tub



Interior



Pond



Building



0-12

Outdoor potted plants mineral substrate:

- Basic components lava, pumice, sand
- 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
- Deliverable as bulk material, in a silo lorry, big bag or in sacks

Vulka Kubo mineral 0-12

Grain size

(\varnothing in mm)

0-12

Particle size distribution

(percentage of total mass in %)

Blowable components	1-15
Fine / medium gravel	30-60

Volume weight

(t/m^3)

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

Salinity

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, mixing with fertilizer possible on request
- Deliverable as bulk material, in a silo lorry, big bag or in sacks

Vulka Kubo organic 0-12

Grain size

(\varnothing in mm)

0-12

Particle size distribution

(percentage of total mass in %)

Blowable components	8-15
Fine / medium gravel	30-40

Volume weight

(t/m^3)

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



Roof



Lawn



Tree



Farm



Tub



Interior



Pond



Building



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, mixing with fertilizer possible on request
- Deliverable as bulk material, in big bags or in sacks

Vulka Kubo

0-4

Grain size (ø in mm)	
Particle size distribution (percentage of total mass in %)	
Blowable components	10-20
Fine / medium gravel	20-40
Volume weight (t/m ³)	
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 _f	0.3-20 mm/min
pH value	6.5-7.2
Salinity	0.5-1.5 g/l

0-4



0-6

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, mixing with fertilizer possible on request
- Deliverable as bulk material, in big bags or in sacks

Vulka Kubo

0-6

Grain size (ø in mm)	
Particle size distribution (percentage of total mass in %)	
Blowable components	10-20
Fine / medium gravel	20-40
Volume weight (t/m ³)	
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 _f	0.3-15 mm/min
pH value	6.8-7.5
Salinity	0.5-1.5 g/l

0-6

Vulkaflor®



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
- Deliverable as bulk material, in a silo lorry, big bag or in sacks

Grain size (\varnothing 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 succulent substrate:

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

Cactus substrate

Grain size (\varnothing 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 0.5-1.5 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.