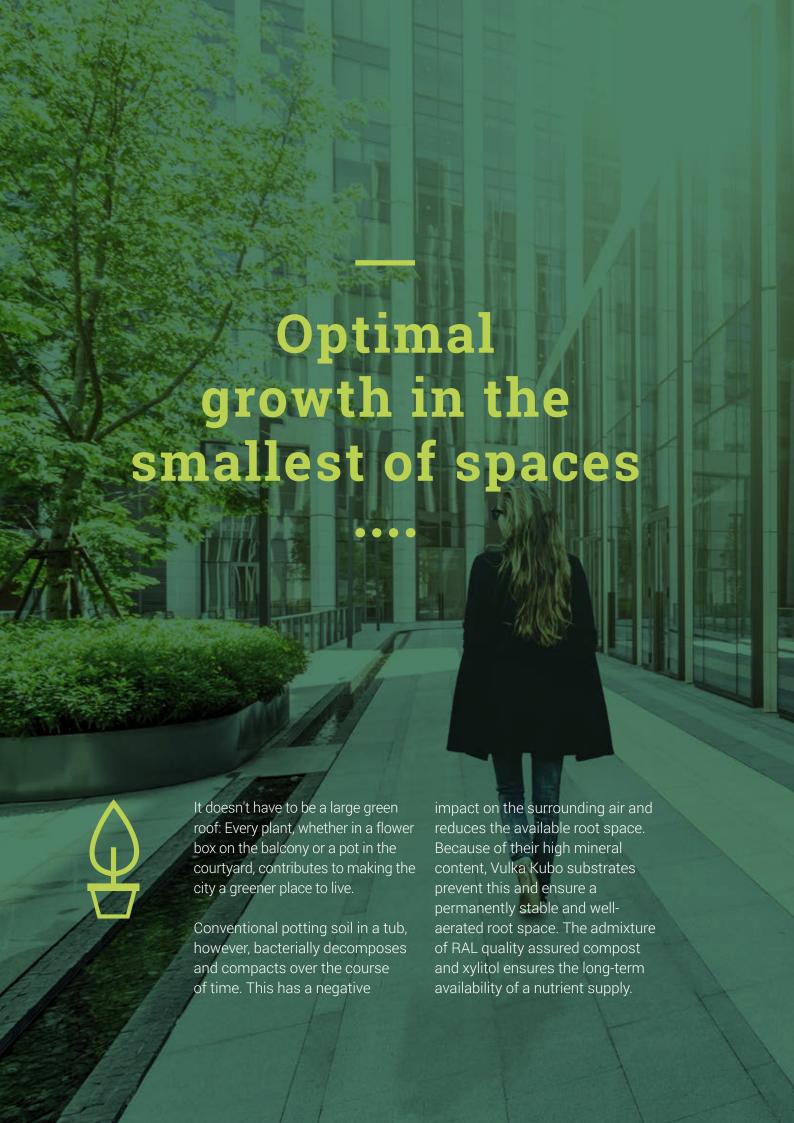


TubSubstrates for tub planting outdoors









Vulka Kubo mineral 0-12

Mineral outdoor potted plant substrate.

on page 136



Vulka Kubo organic 0–12

Mineral-organic outdoor tub plant substrate.

on page 136



Vulka Kubo 0-4 and 0-6

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

on page 137



Vulkaflor®

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

on page 138























Cactus substrate

Mineral or mineral-organic succulent substrate.

on page 138



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

(ø in mm)

Particle size distribution

(percentage of total mass in %) Blowable components Fine / medium gravel

1-15 30-60

Volume weight

 (t/m^3)

Delivery condition DIN EN 1097-3 0.90-1.00 1.35-1.60 At max. water capacity, compacted

Water/air balance, compacted

Runoff curve number C

Maximum water capacity Water permeability mod. K, 20-35 vol. %

60-150 mm/min

pH value Salinity

6.5 - 7.50.1-0.5 g/l



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

(ø in mm)

Particle size distribution

(percentage of total mass in %) Blowable components Fine / medium gravel

8-15 30-40

Volume weight

 (t/m^3)

Delivery condition DIN EN 1097-3 0.95 - 1.10At max. water capacity, compacted Runoff curve number C

1.40-1.70

Water/air balance, compacted

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

pH value 6.5 - 7.50.1-1.0 g/l Salinity

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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



10-20

20-40

Grain size

(ø in mm)

Particle size distribution

(percentage of total mass in %) Blowable components

Fine / medium gravel

Volume weight (t/m^3)

Delivery condition DIN EN 1097-3 0.80 - 0.90At 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, 0.3-20 mm/min

pH value Salinity

6.5 - 7.20.5-1.5 g/l















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

Grain size

(ø in mm)

Particle size distribution

(percentage of total mass in %) Blowable components

Fine / medium gravel

Volume weight

Delivery condition DIN EN 1097-3 At max. water capacity, compacted

Runoff curve number C

Water/air balance, compacted

Maximum water capacity Water permeability mod. K,

pH value

Salinity





10-20

20-40

1.00 - 1.101.60-1.85

40-50 vol. % 0.3-15 mm/min

6.8 - 7.50.5-1.5 g/l



Interior





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 (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



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

0-12
10-20
20-40
0.80-0.90
1.20-1.30
20-35 vol. %
0.3-20 mm/min
6.5-7.5
0.5-1.5 g/l

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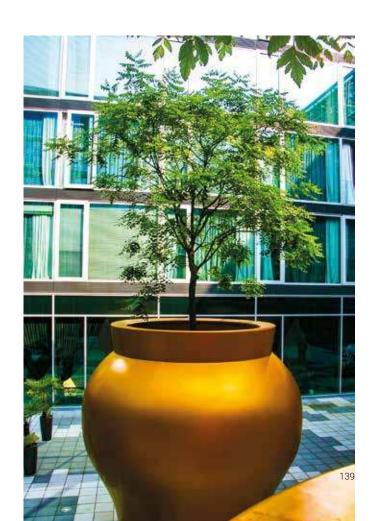
Pond





KÖ-Bogen, Düsseldorf

Planting boxes in the courtyard of the fourth floor.



Kameha Grand Hotel in Bonn

Planting of trees in over four metre high tubs.