

**koberg**  
**Product Catalogue**



## **MINERAL SUBSTRATES 22**

### **Vulkaponic**

Vulkaponic	24
Vulkaponic 2-5   3-8 (Standard)   Vulkaponic 8-16   Vulkaponic with Humic Acid Granules	25

### **Vulkastrat**

Vulkastrat 2-5   Vulkastrat 2-8	26
Vulkastrat with Humic Acid Granules   Vulkastrat 0.5-2 Propagation Substrate	27
Vulkastrat 1-4 Cactus Substrate   Vulkagran Orchid Substrate	28-29

### **Vegetation Substrates**

Koberg Perennials Substrate	30
-----------------------------	----

### **Pond Substrates**

Koberg Pond Plant Substrate	31
-----------------------------	----

---

## **FERTILIZERS 32**

Koberg Universal Fertilizer	34
-----------------------------	----

Koberg Universal Fertilizer Formula II	35
--	----

Koberg Autumn Fertilizer	36
--------------------------	----

---

Koberg Liquid Fertilizer   Koberg Vulkapower	37
--	----

## **SOIL CONDITIONERS 38**

Koberg Soil Activator   Koberg Premium Lime40	
---	--

Koberg Vulkagran G	41
--------------------	----

---

## **VOLCANIC GRAINS 42**

Pumice   Zeolite	44
------------------	----

Lava   Humic Substances	45
-------------------------	----

---

## **INTERBIMS 46**

Green Roof Substrates   Lawn Substrates	48
---	----

Tree Substrates	49
-----------------	----

Pumice   Lava	50/51
---------------	-------

---

## **GEBR. ZIEGLOWSKI 52**

Wall Building Materials / Building Construction	54
---	----

Horticulture and Landscaping / Concrete Products	54
--	----

Concrete/Heavyweight Blocks	55
-----------------------------	----

Raw Materials / Bulk Materials	55
--------------------------------	----

## **SERVICE AND LOGISTICS 56**



**Koberg**

# MINERAL SUBSTRATES

**Our basis for long-lasting indoor and outdoor greening with plants**

# Vulkaponic®

Vulkaponic is a pure mineral mixture of pumice and high-quality zeolites. This makes the substrate light and particularly suitable for indoor greening with containers as well as water retaining systems.

## THE BENEFITS

- Permanent structural stability due to high grain strength
- High water storage capacity of over 40% by volume
- Optimum air pore volume of over 35% by volume
- Substrate is reusable
- Zeolites store nutrients that are released to the plant as required
- No change in the zeolites, not even in the long term
- pH value regulation

## APPLICATION

Vulkaponic has an excellent water storage capacity and a high nutrient storage capacity. The substrate is therefore light and particularly suitable for indoor greening. Also suitable as a hydroponic substrate and for all water-storing systems. When repotting, please note: Remove any loose material from the plants, place them in Vulkaponic at the same height and water well.

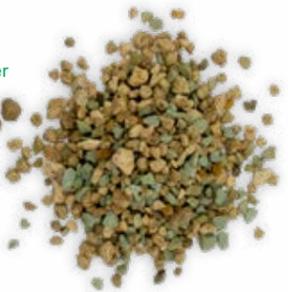
Our substrates are always unfertilized; we recommend using our Koberg Vulkapower Orange fertilizer once or twice a year.

## Vulkaponic®



— DELIVERY FORM —  
Loose, FIBC, 25 L bag, 4.5 L bucket

- Substrate for houseplants
- Ideal for container plantings up to 50 cm pot diameter
- High water storage capacity of over 35% by volume
- Optimum air pore volume of over 25% by volume
- Weight approx. 750 kg per m<sup>3</sup>



## Vulkaponic®



— DELIVERY FORM —  
Loose, FIBC, 25 L bag, 11 L bucket

- Substrate for indoor greening
- Ideal for single-layer indoor greening in accordance with FLL guidelines
- High water storage capacity of over 30% by volume
- Optimum air pore volume of over 35% by volume
- Weight approx. 730 kg per m<sup>3</sup>



## Vulkaponic®

[mit Humingranulat]



— DELIVERY FORM —  
Loose, FIBC, 25 L bag

- Substrate for indoor greening
- Ideal for single-layer interior greening in accordance with FLL guidelines
- Reduced pH value of approx. 5.8 for plants that prefer an acidic environment
- High water storage capacity of over 30% by volume
- Weight approx. 730 kg per m<sup>3</sup>



## Vulkaponic®



— DELIVERY FORM —  
Loose, FIBC

- Coarse substrate for indoor greening for large plants
- Ideal for single-layer indoor greening according to FLL guidelines
- Can also be used as a drainage layer in multi-layer greening
- Optimum air pore volume of over 40% by volume
- Weight approx. 720 kg per m<sup>3</sup>





# Vulkastrat®

**Vulkastrat** is a pure mineral substrate made of pumice, zeolite and lava in grain fractions of 2-8 mm. Zeolites are natural ion exchangers, i.e. minerals that can absorb and release substances. Therefore, no organic substances are required when using zeolites. Due to their high exchange

capacity, zeolites fulfil a similar function to humus and clay in natural soils. In addition to good nutrient storage, the mixed-in high-quality zeolites ensure a stable pH value and odorless water.

### THE BENEFITS

- Permanent structural stability due to high grain strength
- Good water storage and optimum air pore volume at the same time
- Particularly suitable for water-storing systems
- Substrate is reusable
- Zeolites store nutrients that are released to the plant as required

### APPLICATION

Vulkastrat has a good water storage capacity and a high nutrient storage capacity. The substrate is approx. 25% heavier than Vulkaponic and can also be used for indoor greening. Due to its higher weight, it provides plants with a less developed root system with special support in the substrate structure. Also suitable as a hydroponic substrate and for all water-storing systems. When repotting, please note: Remove any loose material from the plants, place them in Vulkastrat at the same height and water well. Our substrates are always unfertilized; we recommend using our Koberg Vulkapower Orange fertilizer once or twice a year.

## Vulkastrat®



— DELIVERY FORM —  
FIBC, 25 L bag, 4.5 L / 11 L bucket

- Substrate for houseplants
- Ideal for container plantings up to 50 cm pot diameter
- High water storage capacity of over 35% by volume
- Optimum air pore volume of over 25% by volume
- Weight approx. 950 kg per m<sup>3</sup>



## Vulkastrat®



— DELIVERY FORM —  
FIBC, 25 L bag, 11 L bucket

- Substrate for indoor greening
- Ideal for single-layer indoor greening in accordance with FLL guidelines
- Ideal for container plantings for pot diameters of up to 50 cm
- High water storage capacity of over 30% by volume



# [ Humic Acid Granules ] Vulkastrat®

**Vulkastrat with Humic Acid Granules** has the same positive properties as our Vulkastrat. However, the humic acid granules mixed in reduce the pH value of the substrate to 5.4, thus creating an acidic soil environment.



— DELIVERY FORM —  
Loose, FIBC, 25 L bag



### THE BENEFITS

- Substrate for indoor greening
- Ideal for single-layer indoor greening in accordance with FLL guidelines
- Reduced pH value of approx. 5.4 for plants that require an acidic environment
- High water storage capacity of over 30% by volume
- Optimum air pore volume of 30% by volume
- Weight approx. 930 kg per m<sup>3</sup>



# [ Propagation Substrate ] Vulkastrat®

**Vulkastrat 0.5-2 Propagation Substrate** is a high-quality mineral substrate developed for the propagation of young plants/cuttings and for growing seedlings. Our propagation substrate consists of washed pumice, lava and zeolite (clinoptilolite), each with a grain size of 0.5-2mm. The particularly fine grain size of our propagation substrate makes it easier to prick out the seedlings later. The mineral substrate is also ideal for cultivation in cutting plates and seed trays and can also be used very well to grow and care for cacti and succulents in containers up to 7 cm in diameter.

### THE BENEFITS

- Structurally stable substrate with an optimum air and water balance
- Purely mineral, therefore unattractive for pests and fungi
- Ideal for pricking
- Particularly fine-grained substrate
- Excellent for cultivation in cutting plates and seed trays
- Unfertilized substrate ensures rapid root development, allowing for better nutrient absorption after transplanting and faster growth



— DELIVERY FORM —  
FIBC, 25 L bag, 4.5 L bucket



[ Cacti ]  
**Vulkastrat®**

A **mineral cactus substrate** usually consists of a mixture of mineral materials such as pumice or lava granules. It is used to plant cacti and other succulents outdoors or in a pot. The substrate should be well draining to prevent the roots of the plants from becoming moist and rotting. It should also not be too rich in nutrients, as cacti usually grow in nutrient-poor soil in their natural environment. Our Vulkastrat 1-4 Cactus Substrate is a new high-quality cactus substrate specifically developed for the care of cacti and succulents.

Our cactus substrate contains washed pumice, lava and zeolite (clinoptilolite), each with a grain size of 1-4 mm. These mixed-in high-quality mineral aggregates ensure ideal nutrient and water storage, a stable pH value and are optimally adapted to the needs of cacti and succulents. This mineral substrate simplifies successful plant care, as it mitigates any errors made in the process.

**THE BENEFITS**

**Drainage** A good drainage system is crucial to the health of cacti and succulents, and a cactus substrate is usually designed to allow excess water to drain away quickly to prevent the roots of the plants from becoming moist.

**Low nutrient content** With its low-nutrient formula and optimized grain size distribution, Vulkastrat cactus substrate is optimally tailored to the needs of cacti and succulents.

- Substrate for cacti and succulents
- A mineral substrate made of pumice, lava and zeolite
- Neutral pH value of approx. 7.0
- Weight approx. 950 kg per m<sup>3</sup>

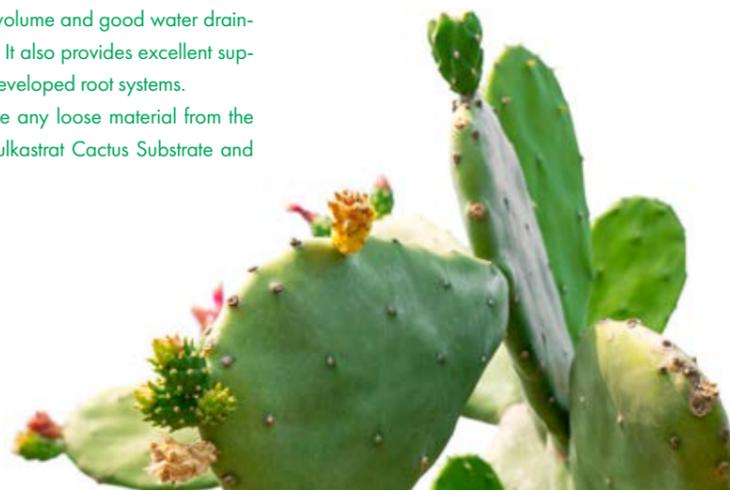
**APPLICATION**

Vulkastrat cactus substrate has a high pore volume and good water drainage, which is ideal for cacti and succulents. It also provides excellent support in plant pots, even for plants with less developed root systems.

**When repotting, please note:** Remove any loose material from the plants, place them at the same height in Vulkastrat Cactus Substrate and water well.



— DELIVERY FORM —  
 FIBC, 25 L bag, 4.5 L / 11 L bucket



[ Orchids ]  
**Vulkagran®**

Specially developed to meet the demanding needs of these exotic beauties, our substrate offers the perfect balance of drainage, air circulation, moisture and nutrient supply – everything orchids need to thrive, be healthy and develop their magnificent flowers. Our mineral orchid substrate consists of a unique mixture of finely balanced mineral components that optimally support and aerate the roots of orchids. The porous structure of the substrate effectively drains excess water to prevent waterlogging and minimize the risk of root rot.

Our mineral orchid substrate is the perfect choice to provide orchids with the best possible care and help them grow.

**Vulkagran PLUS** is a high-quality orchid substrate, ideal for all orchid species. It consists of lava, pumice, zeolites and Koberg Universal Fertilizer. The fertilizer adds the necessary humic acids, nutrients and trace elements to the substrate.

— PLUS —

**THE BENEFITS**

- Substrate for all orchid species
- A mineral substrate consisting of pumice, lava, zeolite, fertilizer and humic acid granules
- High humic acid content for good root growth
- Slow and steady release of nutrients from the granules
- Weight approx. 950 kg per m<sup>3</sup>

**APPLICATION**

When repotting orchids into our mineral orchid substrate, please note: Remove the old plant substrate as completely as possible. If necessary, carefully remove fine crumbs with water. Then cut off all dried and damaged roots directly at the base with pointed scissors. Old flower stems can also be removed. Then place the orchids into the orchid substrate at the same height. Gently tap the pot several times during this process to ensure an optimal distribution of the orchid substrate. Then water carefully. As soon as the roots are anchored in the orchid substrate, the orchids can be submerged again. The mineral orchid substrate is unfertilized.



— DELIVERY FORM —  
 FIBC, 25 L bag, 4.5 L / 11 L bucket





[ Koberg® ]

# Perennial Substrate

Our high-quality Koberg Premium Perennials Substrate for blooming gardens and green spaces is carefully composed on the basis of mineral and organic raw materials to provide perennials with an the ideal environment. With balanced mixing components and high-quality zeolite, our substrate ensures that plants are optimally nourished for long-lasting growth. The finely tuned structure

of our Perennials Substrate promotes optimum air circulation in the root area and supports the development of vigorous perennials with magnificent flowers that will be a joy to look at.

## THE BENEFITS

**Koberg Premium Perennials Substrate** is a peat-free planting substrate using selected organic raw materials as well as pumice, lava and zeolite. It is suitable as a planting substrate in vegetation areas for perennials, shrubs, summer flowers and geophytes.

- As a planting substrate for surface application on vegetation areas
- Good water and nutrient storage due to volcanic aggregates and zeolite, high water retention capacity, little settlement
- Optimal root development, storage of nutrients due to zeolite
- Good and long-term structural stability thanks to mineral components
- Weight approx. 760 kg per m<sup>3</sup>



— DELIVERY FORM —  
Loose, FIBC, 25 L bag



[ Koberg® ]

# Pond Substrate

Our high-quality mineral Koberg Pond Substrates have been specially developed as planting and filter substrates. Our Pond Substrates with zeolite store nutrients from the water in the substrate body, making them available again for the plant roots. This effectively minimizes the formation of algae in the water. Koberg Pond Substrates contribute to an optimum ecological balance in the pond and ensure optimum water quality.

## Properties of our Pond Substrate:

**Biological filtration:** Our Pond Substrate consists of selected volcanic raw materials and high-quality zeolite, which promote optimum biological filtration. They support the removal of pollutants from the water and help to improve water quality.

**Structurally rich texture:** The structurally rich texture of our Pond Substrate provides an ideal habitat for a wide range of pond life, including beneficial bacteria, snails and other organisms that contribute to the natural cleaning of the pond.

**Long-term durability:** Our Pond Substrate is designed to retain its structure and function over the long term. It is resistant to decomposition and provides lasting support for the biological activity in the pond.

## APPLICATION AREAS

Swimming ponds, garden ponds with and without fish

### Koberg Pond and Filter Substrate 4-16 mm:

- Ideally suited as a filter substrate in swimming ponds
- With zeolite to store nutrients and adsorb pollutants
- Balanced grain size distribution, good flow in the substrate body
- Optimal conditions for microorganisms that support water cleaning
- Grain size 4-16 mm
- Weight approx. 980 kg/m<sup>3</sup>

### Koberg Pond and Plant Substrate 1-4 mm (not shown):

- Ideally suited as a planting substrate in swimming ponds
- With zeolite to store nutrients and optimize plant growth
- Supports aquatic plant nutrition
- Provides a firm hold for aquatic plants
- Grain size 1-4 mm
- Weight approx. 1,100 kg/m<sup>3</sup>



— DELIVERY FORM —  
Loose, FIBC





**Koberg**

# FERTILIZERS

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®

Koberg fertilizers feature a high zeolite content. Together with selected organic aggregates, they guarantee a highly efficient storage of nutrients and water, which are then available to the plants as required. Thanks to the high grain stability, the nutrients can neither be washed out by rain nor burnt by the sun.

Koberg fertilizers provide optimal care and strength for trees and shrubs, fruit, vegetable and flowering plants.

**Highly efficient nutrient and water storage**



[ Koberg® ]

# Universa fertilizer

**Koberg Universal Fertilizer** provides long-lasting effects and combines the positive properties of humic acid granules and high-quality fine zeolites (clinoptilolites) with a nutrient composition of 11 - 3 - 5 + 1.5 and 0.1 % iron and micronutrients.

These materials are carefully mixed and granulated. This results in granules with high grain stability that ensures the fertilizer's long-term effects.

## THE BENEFITS

Koberg Universal Fertilizer increases the humus content of the soil, its nutrient storage capacity and the pH stabilization in the long term while activating soil life. The balanced long-lasting nutrient supply benefits your plants, including lawns, trees and shrubs, perennials as well as fruit and vegetables.

- pH value 4.0 with humic acid granules
- With high-quality zeolite to bind nutrients in the soil
- Balanced nutrient formulation with micronutrients
- Promotes soil life



— DELIVERY FORM —  
FIBC, 20 kg bag, 2.5 kg / 6 kg bucket

## APPLICATION

Application amounts of 30-80 g/m<sup>2</sup>, depending on the nutrient requirements of the plants. The grain size composition of 0.5-4.5 mm is designed for the application with standard spreaders.



[ Koberg® ]

# Universa fertilizer

## — FORMULA II —

**Koberg Universal Fertilizer Formula II** provides long-term effects as an organic mineral NPK fertilizer that combines the positive properties of malt culms and high-quality fine zeolites (clinoptilolites) with a nutrient composition of 11 - 3 - 5 and 3% S, 0.1% iron and micronutrients.

Contains plant hormones and growth components extracted from malt culms. These substances support healthy plant growth and increase the root mass of fertilized plants by up to 30%.

## THE BENEFITS

The improved root system and the vitalizing properties of the fertilizer give the plants greater stability, better resistance to drought stress and improved mechanical resilience.

- With malt culms to promote fine root development
- With high-quality zeolite to bind nutrients in the soil
- Balanced nutrient formulation with micronutrients
- Very well-suited for green roofs



— DELIVERY FORM —  
FIBC, 20 kg bag, 2.5 kg / 6 kg bucket

## APPLICATION

Application amounts of 30-80 g/m<sup>2</sup>, depending on the nutrient requirements of the plants. The grain size composition of 0.5-4.5 mm is designed for the application with standard spreaders.



[ Koberg® ]  
**Autumn Fertilizer**

**Koberg Autumn Fertilizer** is a slow-release fertilizer to strengthen plants before winter dormancy. Suitable for all crops and lawns.

The nutrient composition is perfectly tailored to the needs of plants in late summer and fall.

**THE BENEFITS**

With its high potash content, Koberg Autumn Fertilizer perfectly complements the Koberg Universal Fertilizer. At the end of the vegetation period, lawn grasses, perennials and woody plants still store nutrients. However, as these are no longer available in sufficient quantities in the soil solution, it is important to re-fertilize with a potash-rich fertilizer with trace elements.

- Potash-rich fertilizer, especially for autumn fertilization of planting areas and lawns
- With high-quality zeolite to bind nutrients in the soil
- Potash-rich nutrient formulation with micronutrients
- Promotes soil life

**APPLICATION**

Application amounts of 30-80 g/m<sup>2</sup>, depending on the nutrient requirements of the plants. The grain size composition of 0.5-4.5 mm is designed for the application with standard spreaders.



— DELIVERY FORM —  
 17.5 kg bag, 3 kg / 7 kg bucket



[ Koberg® ]  
**Liquid Fertilizer**

**Koberg Liquid Fertilizer** Complete Nutrition NPK 7-3-6+Sp. is a liquid fertilizer with micronutrients for indoor, balcony and potted plants. Thanks to its immediate and long-term effects, it ensures long-lasting lush blossoms and crisp green leaves. With its combination of nutrients with trace elements, Koberg fertilizer ensures optimum plant nutrition and therefore magnificent plants and flowers. An extra amount of nitrogen ensures strong and healthy growth. Important nutrients and growth substances promote vegetation phases and strengthen resistance against diseases and pests.

**THE BENEFITS**

- Balanced NPK nutrient combination of 7-3-5
- Micronutrients for growth and green leaves
- Also suitable as a fertilizer for water storage containers
- Available in many container sizes

**APPLICATION**

Add approx. 12 ml (1/2 capful) of fertilizer to 2 L of irrigation water. For houseplants, fertilize approx. once a week during the growing season (March to October) and once a month in the winter months. Fertilize balcony and potted plants twice a week (May to August). Shake before use.

— DELIVERY FORM —

1 L bottle, canisters in various sizes and 1,000 L IBC container on request



[ Koberg® ]  
**Vulkawer**

— ORANGE —

**Koberg Vulkapower Orange** is a slow-release fertilizer for use in container plantings, nurseries, potted plants, hanging baskets and planting areas as well as for trees and woody plants in horticulture and landscaping. Vulkapower Orange with controlled release offers balanced plant nutrition thanks to its nutrient composition. With an effect lasting up to 8 months, Vulkapower helps to prevent nutrient deficiencies or oversupply, which can impair the growth and health of plants. The result is healthy and strong plants.

**THE BENEFITS**

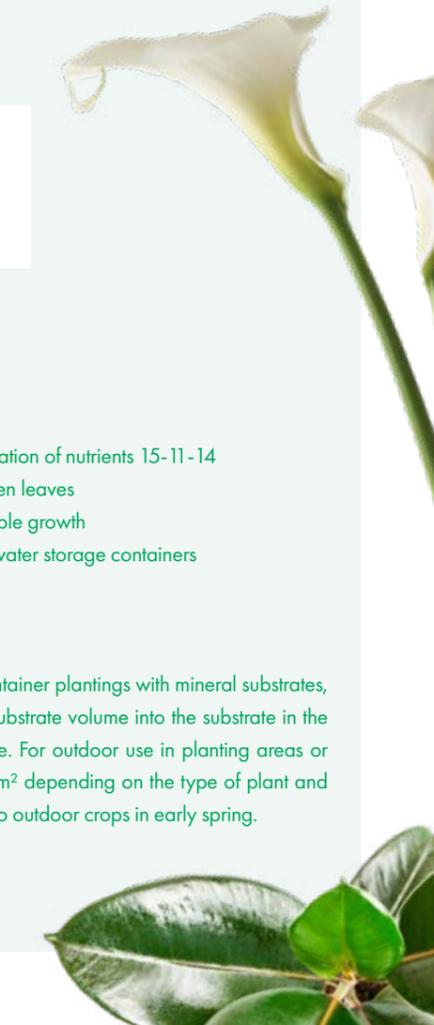
- Balanced NPK nutrient combination of nutrients 15-11-14
- 2% magnesium for healthy green leaves
- Important micronutrients for stable growth
- Also suitable as a fertilizer for water storage containers
- Effective for up to 8 months

**APPLICATION**

For use in indoor greening and container plantings with mineral substrates, mix 150-300 g per 100 liters of substrate volume into the substrate in the plant container close to the surface. For outdoor use in planting areas or nursery crops, mix in 20-70g per m<sup>2</sup> depending on the type of plant and soil conditions. Apply the fertilizer to outdoor crops in early spring.



— DELIVERY FORM —  
 FIBC, 25 kg bag





Koberg<sup>®</sup>

# SOIL CONDITIONERS

To promote soil life and soil fertility



[ Koberg® ]  
**Soil Activator**

**Koberg Soil Activator** regenerates the soil and prevents soil fatigue in the long term. Its unique composition revitalizes the soil on a sustained basis and stabilizes the pH value. Its excellent storage of nutrients and its needs-based release into the soil prevents fertilizer leaching and helps to protect the groundwater.

**Koberg Soil Activator** consists of high-quality organic and mineral raw materials as well as trace elements that ensure strong and long-lasting plant growth. Repeated use of Koberg Soil Activator results in long-term humus formation.



— DELIVERY FORM —  
20 kg / 10 kg bag

**APPLICATION**

- New plants and rehabilitation – 100 g/m<sup>2</sup>
- Existing areas and conservation – 50 g/m<sup>2</sup> annually
- For introduction into balcony boxes and planters – 30 g/ 10 l annually



Can be applied year-round. Also suitable for flowers, trees, shrubs and vegetable plots. Water well in dry weather.

[ Koberg® ]  
**Premium Lime**

**Koberg Premium Lime** ensures a healthy lawn, improving nutrient availability, soil structure and biological soil activity. The high magnesium content, a central component of chlorophyll formation, promotes a beautiful green lawn color. Premium lime is suitable for lawns, ornamental and kitchen gardens.

The soft lime grains dissolve extra fast, penetrating quickly into the upper soil structure and developing their effects rapidly. The uniform grain size ensures even distribution and results in a homogeneous spreading pattern.

**APPLICATION**

- Depending on the soil pH value 1-2 times a year:
- Maintenance liming: 1x in spring with 100 g/m<sup>2</sup>
  - Lime stabilization at pH value < 5.5: 1x in spring and 1x in fall with 100 g/m<sup>2</sup> each
  - Do not spread during very hot and dry periods

**COMPONENTS**

Natural magnesium lime, 61% calcium carbonate, 32% magnesium carbonate, 55% components with alkaline effects, evaluated as CaO (neutralization value).



— DELIVERY FORM —  
20 kg / 10 kg bag



[ Koberg® ]  
**Vulkagran®**

**G**

**Vulkagran G** is a sustainable soil conditioner consisting of zeolite and volcanic rock. It ensures optimum and long-term growth conditions for lawns after scarifying/aerification.

**Vulkagran G** stores nutrients and water, regulates the pH value, brings air into the soil, inhibits fungus growth and increases the shear strength of the lawn. Vulkagran is also ideal as a high-quality aggregate to mix into substrates.

**THE BENEFITS OF VULKAGRAN® G**

- Stores nutrients and water
- Ensures good aeration
- Regulates the pH value
- Increases the shear strength of the lawn
- Is anti-fungal

**APPLICATION**

Application amounts:  
100 g - 300 g/m<sup>2</sup> for lawns;  
5 kg - 8 kg/m<sup>3</sup> for substrate & soil mixtures  
Can be applied by hand or in standard spreaders and in any weather or soil moisture.



— DELIVERY FORM —  
25 L bag



Koberg®

# VOLCANIC GRAINS

High quality raw materials for long-lasting green

## [ Koberg® ] Washed Pumice

We offer high-quality washed pumice in various grain sizes from our own production in the Eifel region.

**Perfect drainage:** Washed pumice is known for its excellent drainage capacity. The use of washed pumice in the substrate mix ensures the efficient draining of excess water.

**Optimum aeration:** The porous structure of washed pumice enables the optimum aeration of the roots. This promotes the gas exchange in the root area and supports healthy plant development.

**Neutral pH value:** Washed pumice has a neutral pH value, which helps to keep the pH value of your substrate mix stable.

**Long-term durability:** Unlike organic materials, washed pumice does not decompose over time. This means that the structure of the substrate mixture remains stable in the long term.

### GRAIN SIZES

- 0.5-2 mm
- 2-5 mm
- 4-8 mm
- 8-16 mm

### FORM OF DELIVERY

25 L bag, FIBC



## [ Koberg® ] Zeolite

### The benefits of zeolite for the soil

Fertilization leads to an accumulation of nutrients in the soil solution. This high nutrient content, which the plants usually cannot fully absorb immediately, is offset by a low concentration in the zeolite. This means that some of these nutrients are adsorbed in the crystal lattice of the zeolite rock, which protects them from decomposition/conversion or leaching. When the nutrient concentration in the soil solution drops, the zeolite releases the nutrients again for the plants to absorb. This process is constantly repeated without the zeolite being consumed. Koberg Zeolite is of excellent quality, featuring a high clinoptilolite content of >92%.

### THE BENEFITS

- Natural nutrient store
- pH value stabilization
- Reduced leaching losses of nutrients
- Increased water storage
- Zeolite function is permanent (sustainability)

### GRAIN SIZES

- 0.5-1 mm
- 1-2.5 mm
- 2-5 mm
- 4-8 mm
- 8-16 mm

### FORM OF DELIVERY

25 L bag, FIBC



## [ Koberg® ] Lava

**Koberg Lava Grains.** Our Lava Grains are available in a wide range of grain sizes and colors. As a natural volcanic rock, they are ideally suited as a soil conditioner, mixing component for substrates and as a mineral mulch for planting and shrub areas.

**Durability:** Due to their natural composition, Lava Grains are extremely durable and resistant to the elements.

**Versatile applications:** From substrate mixes, improving soil structure and water retention to covering garden beds and decorative accents, Lava Grains offer a wide range of applications.

**Water permeability:** The porous structure of Lava Grains enables excellent water permeability, which contributes to soil aeration and the prevention of waterlogging.

### Our product range includes:

**Red-brown lava:** Vibrant red-brown tones give your projects a warm and inviting feel.

**Black lava:** Classic and elegant, ideal for modern designs and contrasting accents.

### GRAIN SIZES

- 2-4 mm
- 2-8 mm
- 8-16 mm
- 16-32 mm

### FORM OF DELIVERY

25 L bag, FIBC



## [ Koberg® ] Humic Acid Granules

**Koberg Humic Acid Granules.** Our Humic Acid Granules are a high-quality soil conditioner specifically developed to optimize soil structure and promote healthy plant growth. Made from natural humic acids, our granules offer a wide range of benefits for gardens, beds and houseplants.

The application of our Humic Acid Granules improves the soil structure on a sustained basis by increasing soil fertility and supporting

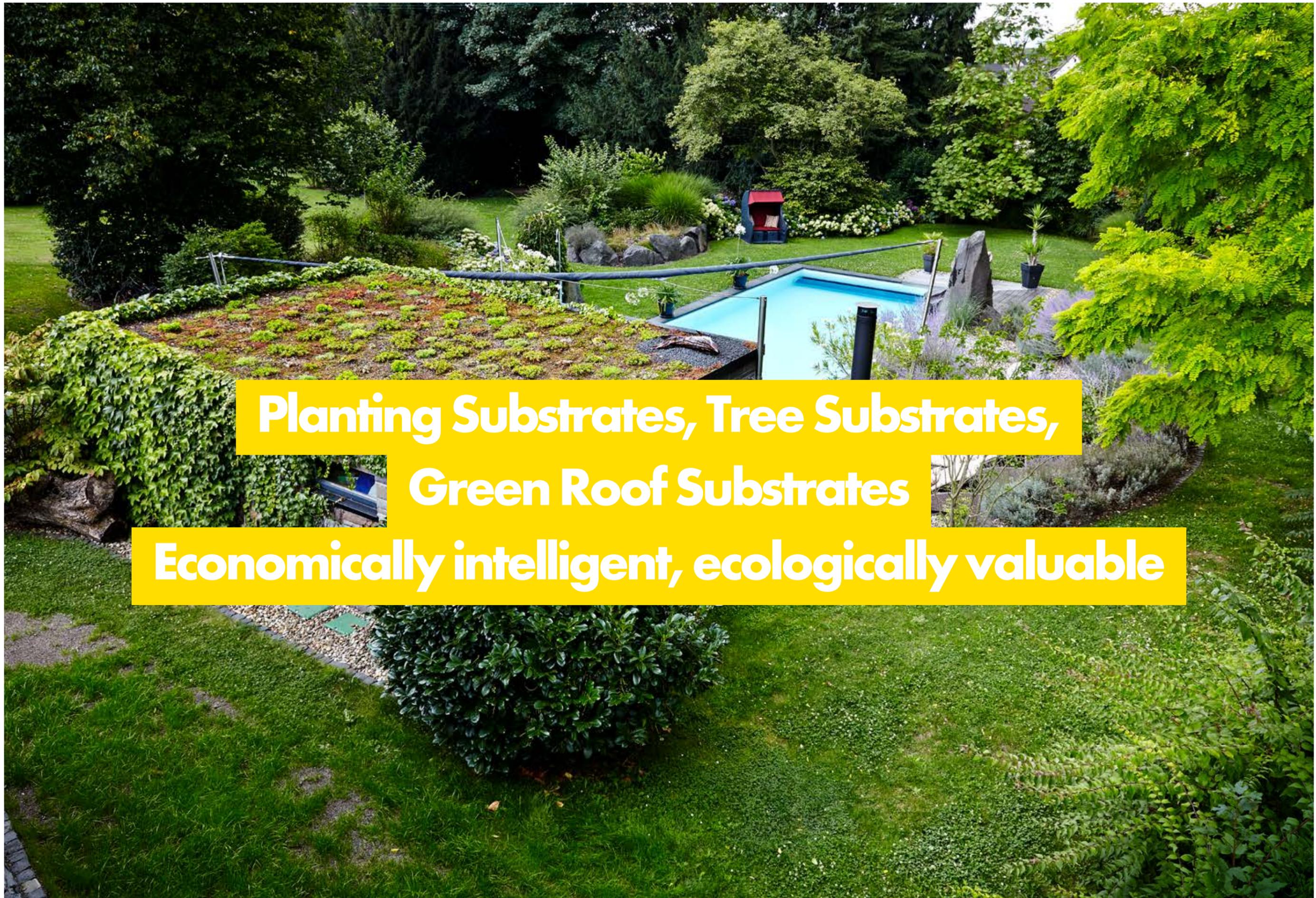
the nutrient uptake of plants. The humic acids it contains promote soil life and improve the water retention capacity of the soil, which leads to more efficient water use and better aeration.

Regular use of our Humic Acid Granules will lead to improved root development, stronger plants and increased resistance to diseases and stress factors. It also contributes to the activation of micro-organisms in the soil, resulting in a natural improvement in soil structure and the regulation of the pH value.

### FORM OF DELIVERY

25 L bag, FIBC





**Planting Substrates, Tree Substrates,  
Green Roof Substrates**

**Economically intelligent, ecologically valuable**

# Green Roof Substrates

A green roof is not only an eye-catcher, but also offers many other benefits. They increase the service life of a roof's waterproofing, improve the thermal insulation of a building in winter and acts as a heat shield in summer.



## THE BENEFITS

- **Extensive** green roofs are easy to create and require little maintenance but offer few opportunities for use. These types of roofs are only accessed for care and maintenance.
- **Intensive** greening is equivalent to a garden and means increased effort in terms of construction/creation and care/use.
- Mixed forms usually involve higher extensive greening with more plant species, but without larger plants. These green areas are also generally only accessed for care and maintenance purposes.

# Lawn Substrates

Lawns are used for a wide variety of purposes and often have to withstand the most adverse of conditions. Lawn substrates help to create the best conditions for long-lasting green lawns for every purpose. Especially in the private homes, the lawn is often the main spot where people spend their time in the garden – where children play and parties are held – making the lawn the centerpiece of the garden. This is why many owners put a lot of effort into maintaining their lawns.



## THE BENEFITS

- Natural volcanic base such as pumice and lava
- Good water storage capacity
- Structurally stable
- Load-bearing
- Little settlement
- Improved nutrient supply
- Optimized root development
- More sterile than soil
- Can be applied in any weather
- Optimum quality

# Tree Substrates

Filling a tree pit with the right substrate is the key basis for the positive development of the plant. Especially in an urban environment, planting with the right tree substrate is essential to ensure a tree's healthy growth. Our interground tree substrate mixtures meet the requirements of plant pit construction methods 1 and 2 of the German Landscape Research, Development and Construction Society FLL and ensure optimal conditions.



## THE BENEFITS

- Tree substrate 0-16, substrate according to FLL 1  
Filling of tree pits for new plantings and site renovations
- Tree substrate 0-32, substrate according to FLL 1  
Filling of tree pits for new plantings and site renovations
- Tree substrate 0-32 SW, substrate according to FLL 2  
Filling under street/traffic areas

# Sifted and Washed Pumice

Natural pumice, also known as pumice gravel or pumice stone, is a very light volcanic rock that is very porous. Pumice is formed when lava is exposed to gas-rich substances such as water vapor and carbon dioxide during a volcanic eruption. Pumice gravel is therefore chemically identical to lava and, depending on the volcanic eruption, has a light to dark color. iNTERBiMS has access to the most extensive pumice deposits with the best quality spectrum in the Eifel region. All pumice qualities are available in all common delivery forms, from natural pumice/raw pumice from the pit to sifted pumice and washed pumice. At iNTERBiMS you can buy different pumice stone or grain sizes, both in FIBCs and in a loose form.

## FIELD OF APPLICATION

- Aggregate
- Improvement of soils
- Green roofs
- Production of pumice building materials / pumice blocks / lightweight concrete blocks
- Water treatment filter material
- Jeans production
- Bulk insulating material
- Substrates, construction chemicals, plasters, mortar, binding agents, carrier material
- Winter grit
- Substrate production
- Abrasives
- Road construction (NL)
- Insulation material



# Lava

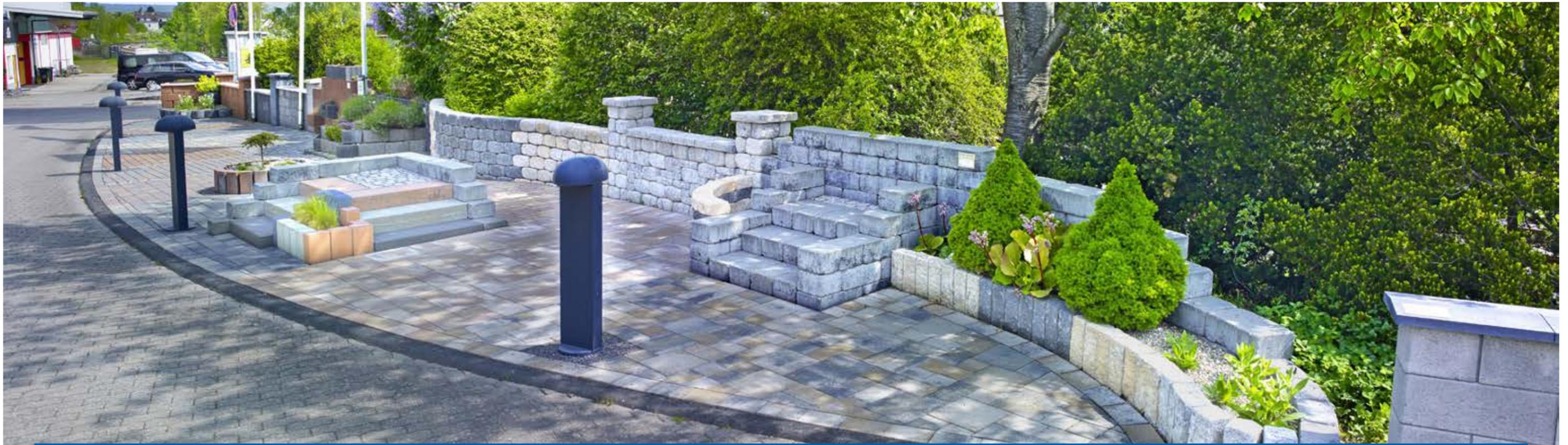
Our lava comes from the Eifel region north of Koblenz by the Rhine River. Lava is a volcanic product that is mined and crushed in open-cast mines. We sift or refine this lava into different grain sizes and offer it as lava, lava stone, lava chippings, lava substrate, lava granules or lava mulch.

Besides adding it to substrates, lava is mainly used in road construction, but also as drainage for green roof substrates, fillers for construction site fillings, gritting material, mulch layers, soil conditioners, etc. We offer lava mulch in the colors anthracite and red-brown especially for beds or road construction. We also offer pure lava granules, e. g. as a natural gritting material.

## FIELD OF APPLICATION

- Aggregate
- Improvement of soils
- Green roofs
- Natural grit
- Permanent mulch layer
- Drainage material
- Garden decoration / ornamental granules





# Horticulture, Landscaping and Masonry Products with Regional Building Materials



# Wall Building Materials / Building Construction

GEBR. ZIEGLOWSKI has been producing state-of-the-art wall-building materials made of pumice / lightweight concrete blocks for seven decades. Our **KLB lightweight** concrete block range includes a very large variety of blocks comprising thermal insulation blocks, sound insulation blocks, large-format blocks and many specialty items, all featuring unique construction, physical, sustainable and ecological properties.



## APPLICATION

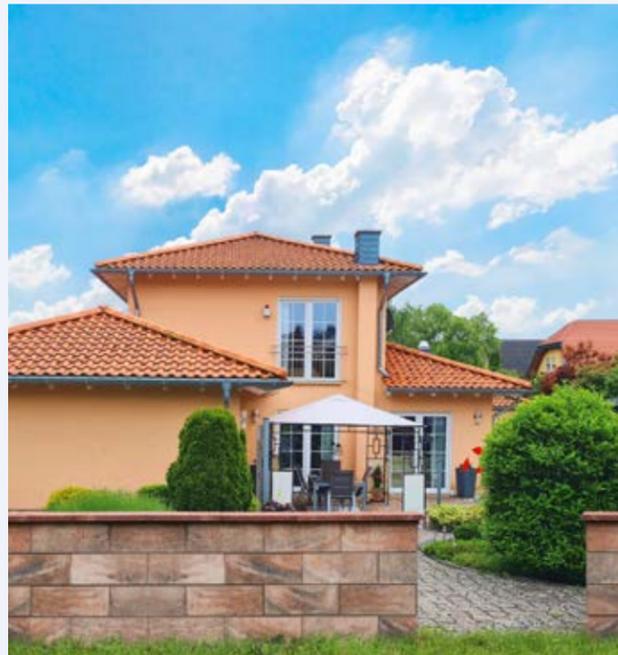
- Single-family house construction
- Apartment construction
- Commercial/industrial construction
- Hall construction

# Horticulture and Landscaping / Concrete Products

**GZ Shuttering Blocks** – The versatile all-rounder, ideal for horticulture and landscaping.

Garden walls, planters, coping stones, pool copings, heavy-weight blocks, palisades, paving blocks and much more.

The load-bearing wall in precision block quality in sizes of 11.5 cm, 17.5 cm, 24 cm, 30 cm and 36.5 cm and with heights of 20 cm and 25 cm. Plan your project with our configurator [www.mauerplaner.de](http://www.mauerplaner.de).



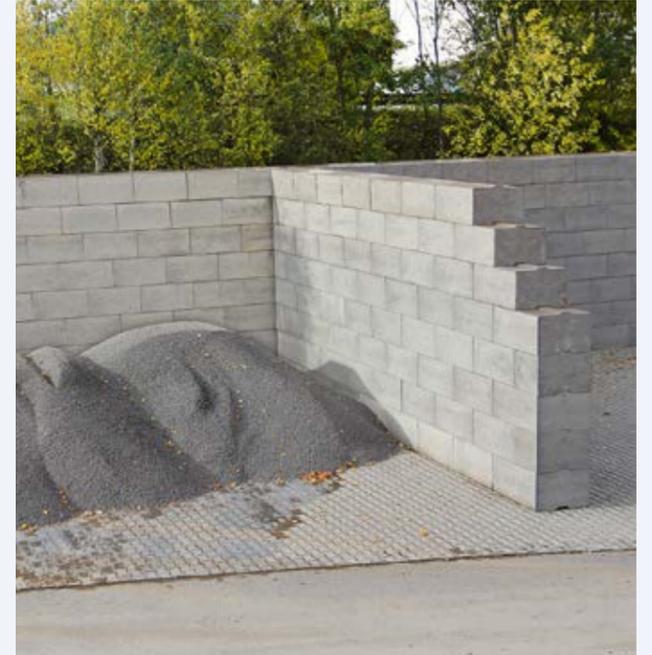
## APPLICATION

- Garden walls
- Swimming pool construction
- Screen walls
- Noise barriers
- Raised beds
- Enclosure walls
- Retaining walls

# Concrete / Heavyweight Blocks

**GZ-BoxBlock** – Stable storage systems with heavyweight blocks. The **GZ BoxBlock system** is ideal wherever different bulk materials need to be stored neatly and separately. These blocks can be used to very quickly create material boxes that can be rearranged flexibly at any time.

Large quantities can be provided at short notice thanks to the industrial, high-performance production at GEBR. ZIEGLOWSKI. With our own configurator at [www.mauerplaner.de](http://www.mauerplaner.de) you can plan and visualize your bulk material boxes yourself.



## BENEFITS

- Very short delivery times for large quantities
- Flexible use
- Simple processing
- No mortar required
- Cost-effective and stable in value
- Sturdy, stable and resistant
- Sample static calculations available
- BoxBlock light with additional storage option

# Raw Materials / Bulk Materials

GEBR. ZIEGLOWSKI is a specialist in bulk materials for building construction, civil engineering, horticulture and road construction. The company operates large raw material warehouses in the Koblenz area carrying volumes of up to 50,000 tons of gravel, sand, high-grade moraine chippings and Eifel lava. GEBR. ZIEGLOWSKI supplies volcanic raw materials such as pumice, trass and lava mostly from its own deposits. Natural pumice, sifted pumice, washed pumice, lava and trass are used in various qualities and grain size distributions.



## APPLICATION

- In the production of lightweight concrete building materials
- In cement production
- In horticulture and landscaping
- In road construction
- As a binder
- In the production of substrates
- As winter grit
- As filter material

# Service and Logistics



## Service

With over 20 years of experience as a manufacturer of mineral substrates, Koberg has extensive knowledge of which substrate is the right one for the greening task at hand. Take advantage of Koberg's consulting expertise right when you begin planning your greening project – we will be happy to advise you.

In addition to the twenty different formulations for different fields of application and plant ranges, we are also able to develop special mixtures for specific requirements thanks to our extensive stock of raw materials.

## Logistics

Our raw materials pumice, zeolite and lava are processed into Koberg mineral substrates in the immediate vicinity of the extraction site in the so-called Koblenz Neuwied Basin. Thanks to the proximity to the A61 highway and the Rhine, the optimal logistics transport routes can be used, and the products can be shipped via the waterways under the most eco-friendly conditions.

Whether you need your mineral substrate loose, in FIBCs or in bags, our team will ensure that it reaches its destination quickly, safely and on time.

Whether by tipper truck, general cargo or curtainside transport, sea container or on a silo train with the option of delivering the material to the installation site by hose: With our own company group trucks and reliable transport partners, we will ensure that the goods reach their destination on time.



## Packaging

In addition to loose goods, our packaging technology enables us to pack and palletize mineral substrates in container sizes from 1 to 40 liters. Please contact us if you require individual packaging methods or sizes.





