



Eco- Friendly, All-Natural Water Retention
Product

TECHNICAL INFORMATION

Natural Water conservation product for Water
Conservation in Modern, Sustainable
Landscaping



EUROPE
Neufarm GmbH
Münster/Germany
TURKEY



What is AquaSave®

AquaSave is a very effective soil additive, consisting of naturally occurring mineral material, ensuring one of the best water retention and water saving technology currently available in the market for hot arid climatic conditions,

Not only does AquaSave improve the soil structure, but it also enhances the water holding capacity of soil mixtures, ensuring the rate of infiltration of irrigated water is reduced by as much as 83%. This in turn ensures that the plant roots have extended period of time to absorb the water and other nutrients without all of it being lost through percolation and leaching.

BENEFITS OF USING AQUASAVE

1. AquaSave **reduces the quantity of irrigation water** by almost 50%
2. **Saving in Electricity consumption:** Due to the fact that less water has to be pumped through the irrigation network and for fewer hours per day, the addition of AquaSave to the landscaped area leads to significant savings in long term operating costs in terms of electricity consumption
3. **Faster and Better growth of plants:** Factors such as reduced percolation and leaching, and the availability of water and induced fertilizers for an extended amount of time, ensure that the plants and crops have stronger and healthier growth in comparison to standard soil mix
4. **Better pH and EC Balance:** With proven results that the pH is maintained between the ideal range for plant growth, and with the Electric conductivity increased, the growth rate of grass and plants is tremendously increased due to constant access to nutrients.
5. **Reduction in carbon footprint and leaching of fertilizers to ground water**
6. **No Re-application costs:** Due to its naturally occurring mineral origin, AquaSave does not need any re-application and stays active in the soil for many decades, with no losses in performance, making it one of the best permanent amendment available on the market

AquaSave Packing:



ORIGIN OF THE NATURAL MINERAL PRODUCT



AquaSave is a natural resource and is a mining product, making it a permanent amendment for water retention for landscaped areas.



Shown in the images above is the broken pieces of AquaSave's mineral after mining, and the manufacturing plant to further process and make the mineral to sizes suitable for soil mixes for plants and crops. These minerals are naturally occurring, harmless to the environment, and is used to wide applications like animal feed, and as an ingredient for cosmetic and makeup products. Due to its rock origin, AquaSave stays active in soil for over 30+ years!

PRODUCT SPECIFICATIONS AND CHARACTERISTICS:

AquaSave is a manufactured from naturally occurring inorganic mineral, non crystalline in nature (Opal CT). The material is completely stable and inert.

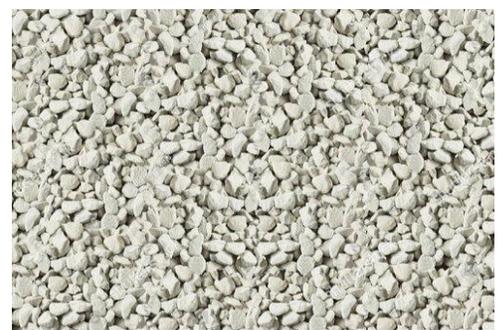
Non Swelling structure and the mined rocks (Illite) is then calcined at high temperatures to prepare them further for the purpose of landscaping soil mix to maintain high water retention properties.

Permanent amendment for the soil with consistent water retention and release properties due to its naturally occurring and non swelling nature.

100% of AquaSave is inorganic in nature

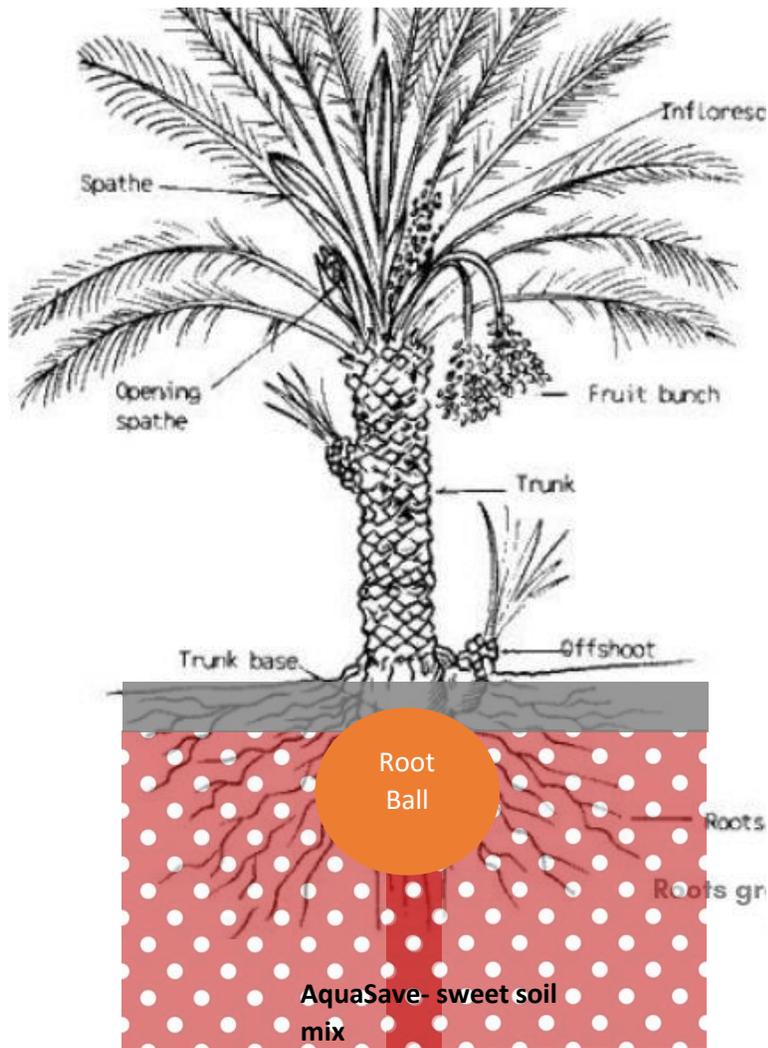
Guaranteed reduction in consumption of irrigation water by at least 45% for a minimum of 25 years, and with less than 3% loss in performance over 25 years.

Technical Data	
Physical	
Total Porosity	74%
Capillary	39%
Non Capillary	35%
pH	6.5- 7.5
C.E.C	32.93 meg/100g
Hardness	>90%
Particle Stability	2% over 20 year period
Water Absorption	90%
Water Release	80-85%
Density	590kg/m ³
Specific Gravity	2.3
Chemical	
Opaline Silica(SiO ₂)	63-74%
Aluminum Oxide	10-18%
Iron Oxide	3-6%
Particle Size	Max 1/4inch, mined & crushed



DIRECTIONS FOR USE OF AQUASAVE FOR NEW PLANTATION

Palm Trees:



To achieve ideal results, mix AquaSave with sweet soil taken out of the tree pit at a ratio of 30kg per palm tree pit. Fill the mix back to the pit and then place the root ball on this layer; and fill the rest of the mix until the root ball is fully covered. The upper pit can be filled with normal sweet soil.

Other Trees: To achieve ideal results, mix AquaSave with sweet soil taken out of the tree pit at a ratio of 20kg per tree pit. Fill the mix back to the pit and then place the root ball on this layer; and fill the rest of the mix until the root ball is fully covered. The upper pit can be filled with normal sweet soil.

Shrubs- Climbers:

Individual: Recommended 2-3kg mixed in the top 300mm of the soil mix.

Clubbed or Massed: Recommended 5-6 kg/m² mixed in the top 300mm of the soil mix

Grass: Recommended 1-1.5 kg/m² mixed in the top 300mm of the soil mix

Ground Covers/ Lawns: Recommended 1-1.5 kg/m² mixed in the top 300mm of the soil mix

LAB RESULTS: Lab results for samples are attached. Please refer to the additional document.

APPLICATION METHODS:

To Existing sweet soil layer:



To sweet soil mix for new plantations:

