

AquaSoil



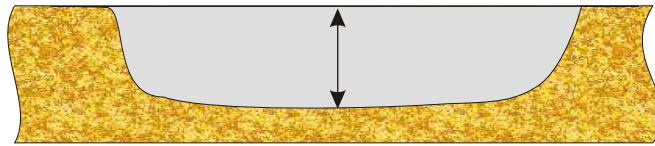
For a sound environment

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How to use AquaSoil

Before the employment of AquaSoil, the ground has to be prepared accordingly. When defined is what kind of plants should grow in the selected area, the excavation should be done as follows:

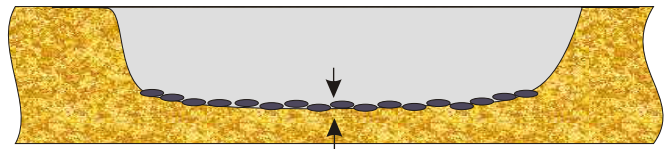
- | | |
|---------------------|-------|
| 1. Gras | 30cm |
| 2. Vegetables | 45cm |
| 3. Bushes or shrubs | 90cm |
| 4. Trees or palms | 120cm |



Condense the ground with an adequate equipment, at least by stamping with prepared shoes.

A.

After this work, the ground should be covered with a layer of stones Of about **5cm** depth. The used stones should have sizes between 1cm and 5cm. With these stones the ground should be totally covered. Condense the ground as above.

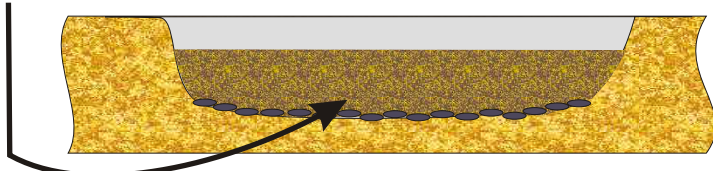


B.

The next layer is a 50:50 mixture of sand and AquaSoil has to be prepared. This material should be spread out with a thickness or depth according to the planned cultivation with

- | | |
|---------------------|------|
| 1. Gras | 20cm |
| 2. Vegetables | 30cm |
| 3. Bushes or shrubs | 60cm |
| 4. Trees or palms | 80cm |

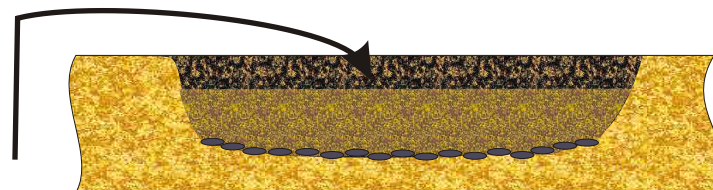
Condense the ground as above.



C.

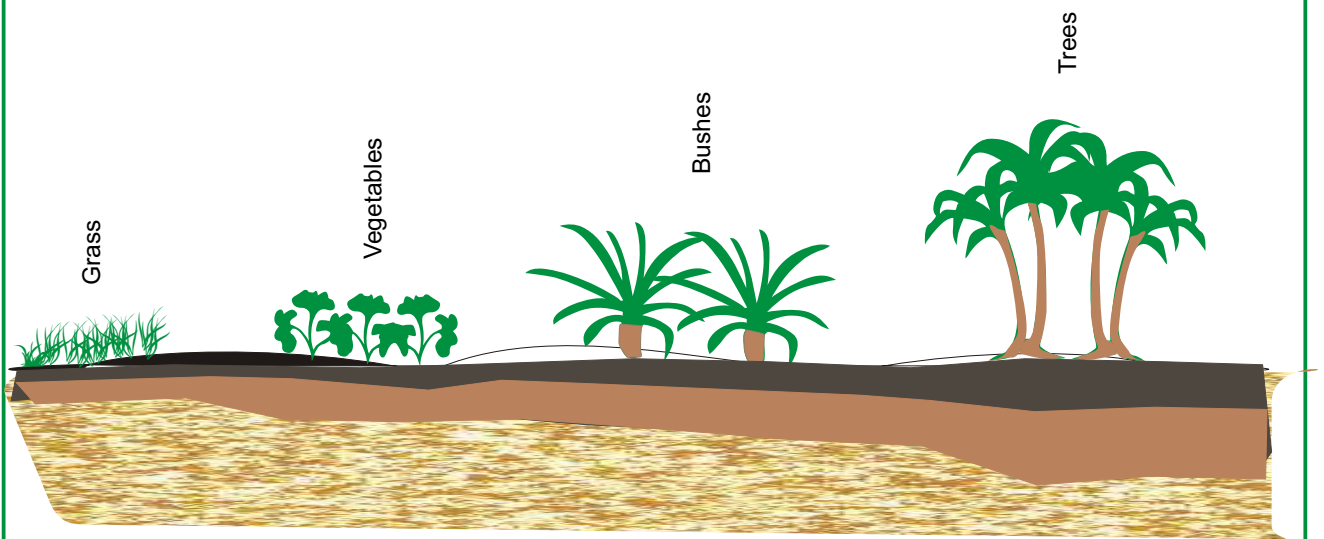
The final soil layer should be prepared with a 66:34 mixture of sand and AquaSoil and then the ground has to be filled up to the old level, with

- | | |
|---------------------|------|
| 1. Gras | 10cm |
| 2. Vegetables | 15cm |
| 3. Bushes or shrubs | 30cm |
| 4. Trees or palms | 40cm |



Now the ground is prepared for planting the selected plants.

Various depth's of AquaSoil for different plants



10+20

15+30

30+60

40+80

XX = AquaSoil (with 66% sand or any other soil) in cm

ZZ = mixture 50:50 AquaSoil and sand or any other soil

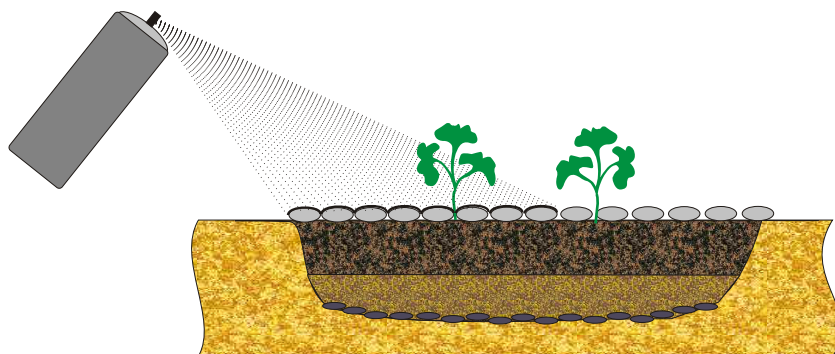
The addition of sand or soil should be done on the base of the weight and is the dilution of AquaSoil. The higher load of sand in the upper layer should increase the weight of the soil to avoid the material drift.

AquaShelter

If seed is used the total ground should be covered with coarse sand, gravel or shingle. This material should not be damped or condensed !

After filling up the area the AquaShelter can be sprayed on the surface for a high reflection of the sun radiation.

Now the area in question has to be irrigated to start the growth of the plants. If no seed is used but plants, the filling material coarse sand, gravel or Shingle should be spread around the plants and then prepared with AquaShelter.



Technical Information:

100g AquaSoil (dry matter) contains:

Nitrogen

Nitrogen, solvable : 76mg/l

NO₃-N 36mg/l

NH₄-N 40mg/l

Phosphate

Phosphate, solvable (P₂O₅) : 467mg/l

Potassium

Potassium, solvable (K₂O) : 1700mg/l

Magnesium

Magnesium, solvable (MgO) : 213mg/l

conductivity : 3.34mmhos/cm

organic substances : > 60%

polyelectrolytical polymers : 1.0 %

humic acid (part of the org.m.) : > 50 %

pH value: ~ 6.0

NaCl (Sodium chloride) 0.2%

Pollution

- *Salmonellae* 0.00

- *Nematoden* 0.00

Heavy metals in mg/kg

▪ <i>Lead</i>	<i>max. value: 70</i>	<i>measured value: 26</i>
▪ <i>Cadmium</i>	<i>max. value 1.0</i>	<i>measured value: 0.61</i>
▪ <i>Chrome</i>	<i>max. value: 60</i>	<i>measured value: 29</i>
▪ <i>Cooper</i>	<i>max. value: 50</i>	<i>measured value: 17</i>
▪ <i>Nickel</i>	<i>max. value: 50</i>	<i>measured value: 16</i>
▪ <i>Mercury</i>	<i>max. value: 0.5</i>	<i>measured value: 0.17</i>
▪ <i>Zinc</i>	<i>max. value: 150</i>	<i>measured value: 110</i>

AquaSoil is highly filled with all necessary ingredients, what makes it to a soil-concentrate which can be diluted with 2/3 of sand or salt free soil.

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