

**E R G O F I T O I N A C T I O N**

Give Nature What Nature Wants

## **Ergofito DIL (Agri)**

**Save Water, Electricity and Irrigation Infrastructure**



ERGOFITO

[www.ergofito.co.za](http://www.ergofito.co.za)

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## PREAMBLE:

Did you ever wonder why a water droplet stay attached to a faucet for a long time?

Welcome to surface tension.

By making the water wetter, we get better results and use less water.

## SURFACE TENSION:

Surface tension is the elastic tendency of a fluid surface which makes it acquire the least surface area possible. Surface tension allows insects (e.g. water striders), to float and stride on the water surface.

As liquid-air interfaces, surface tension results from the greater attraction of liquid molecules to each other (due to cohesion) than to the molecules in the air (due to adhesion).

The net effect is an inward force at its surface that causes the liquid to behave as if its surface were covered with a stretched elastic membrane.

Thus the surface becomes under tension from the imbalanced forces, which is probably where the term "surface tension" came from.

Because of the relatively high attraction of water molecules for each other through a web of hydrogen bonds, water has a higher surface tension (72.8 milli-newtons per meter at 20 °C) compared to that of most other liquids.

Surface tension is an important factor in the phenomenon of capillarity.

## HOW DOES ERGOFITO DIL (AGRI) WORKS:

**Ergofito DIL (Agri)** works by simply emulating nature; we start by neutralizing the magnetic charges of water particles thus reducing interfacial tension.

By reducing interfacial tension, water greatly increases penetration as it no longer respond to cohesive forces where water attempts to use minimum surface contact area.

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By applying **Ergofito Dil (Agri)** to water, the contact surface is maximized hence increasing its wetting ability. This leads to water saving, soil humidity increase, better absorption into soil, plants and all that the treated water will get in contact with.

#### **APPLICATION PROTOCOL:**

**Ergofito Dil (Agri)** can be applied in all existing irrigation systems. It requires no specific equipment; it is safe for all living matter.

- 1: Mix 250 grams of Ergofito Dil (Agri) per 1000 liters of water
- 2: It is recommended to use Ergofito Dil (Agri) each time irrigation is applied
- 3: Test soil humidity to regulate irrigation, thus quantifying water saving

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## **ERGOFITO DIL (AGRI) BENEFITS:**

- 1: Decrease water usage, up to 50%
- 2: Reduces energy consumption when water is pumped and piped due to greatly reduced friction, up to 50%
- 3: Helps clearing clogged irrigation pipes
- 4: Increase fertilization efficiency
- 5: Helps aerate roots
- 6: Decrease evaporation as water does not remain on the surface
- 7: Avoids lens effect whereas droplets of water remain on the leaves concentrating sunlight on the leaf producing hot spots.
- 8: Assists in eliminating “dollar spots” on lawns or large grass fields as the treated water allows for uniform wetting and fertilization.

## **CONCLUSION:**

The ever increasing cost of irrigation, water and electricity prices.

The benefit of de-tensioning water will not only reduce such costs but maintain the irrigation system by keeping the pipes clean and operating at a reduced pressure, thereby improving pipe's longevity.

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