

DESCRIPTION:

FULVITAL WSP 80® is an extremely bioactive low molecular weight substance that is the end product of decomposition of all once living matter, which is readily water soluble and soluble in both acid and base, and at all pH levels. Consists of extremely complex molecules made up primarily of highly protective and seemingly immortal plant phytochemicals which are combined and recombined during the humification (decomposition) process, being digested by at least three species and generations of appropriate microbes, becoming the most complex natural substance on Earth. Also contains latent solar energy hidden deep within its complex molecular structure which originated from photosynthesis of the plants of origin, which is partly responsible for most unusual properties and bioactive nature of fulvic acids.

ORIGIN:

FULVITAL WSP 80® is gained through extraction from German highly oxidized lignites (known as Leonardite). It arises at the chemical and biological humification of plant and animal matter and by the biological activity of microorganisms. They provide a very high content of humic and fulvic acids and about 60 biologically active trace elements.

COMPOSITION:

| | |
|------------------------------------|-------------------|
| Water soluble Fulvates (dry base): | 85% min |
| Fulvic acid (dry base): | 80% min |
| Humidity: | 15% max |
| pH-value: | 5-7 |
| Residue on sieve (0,5mm): | 5% max |
| Appearance: | Fine black powder |

**water soluble powder of Fulvic Acid****Concentrated Nutrient Booster****BENEFITS:**

FULVITAL WSP 80® is extracted from a natural aged humus and concentrated into a completely soluble dry powder. The fact that fulvic acid is soluble with a low molecular weight enables it to penetrate through cell membranes of the roots and leaves, transporting chelated metals to the plant inner parts.

FULVITAL WSP 80® is known for its ability to:

- Chelate with plant nutrients to improve their uptake by plants, and reduce their immobilisation in the soil
- Promote quicker seed germination and faster root and shoot growth
- Provide a valuable source of carbon for soil microorganisms
- Stimulate enzymic systems in plants to increase plant respiration
- Improve moisture retention in plants and reduce moisture stress
- Stimulate the growth of microorganisms since they are a rich source of food for them. Total cationic exchange capacity is increased due to its colloidal characteristic
- Is considered as an active sequestering agent. Its high sequestering power of mineral elements unblocks the nutrients in the soil, allowing its assimilation by the plants
- Due to the presence on Nitrogen (N) in its formulation since the beginning, improves development and growth of the roots, activating the cell division, and both, Fulvic Acid and Nitrogen (N), have participation in a great number of enzymes.
- Delay the decomposition of ultraviolet unstable agents

Soil application:

FULVITAL WSP 80® is fast acting and has a very high chelating power. Because of the high chelating power of the product, mineral elements in the soil will be unlocked and improved plant assimilation of these nutrients will occur, thus improving the nutrient balance and the overall plant performance and vigour. It will improve the structure and texture of the soils and will also increase the soil's CEC.

Foliar application:

Foliar applied **FULVITAL WSP 80®** places organic carbon on the leaf surface which aids photosynthesis. It also helps the combined tank mix penetrate the foliage while buffering any adverse effects of the mixture. Once in the leaf **FULVITAL WSP 80®** facilitates nutrient transport as well as the conversion of carbohydrates into sugar.

Suggested Applications:

Soil application: Apply 3-4kg/ha through drip irrigation or 1kg in 1000l of water for spray as a stand alone or with other fertilizer and herbicides.

Foliar application: Apply 1kg in 1000l of water per 1000m² with or without micronutrients.

Vegetable crops: Apply 250g/ha in 200-400l of water every 10-14 days.

Flowers: Apply 200g/ha in 200-400l of water 10-14 days.

Fruit trees: Apply 250g in 400l water and apply to "run-off".

Timing: Apply in the early morning or in the evening, please do not apply in full sunshine during the heat of the day or when the crops are wilting.

Soil application: Apply 3-5kg/ha to the soil before planting.

Compatibility: It is advisable to jam-jar test if being used with pesticides or other foliar fertilizers.

Inclusion with fertilizers: 1%-2%

FULVITAL WSP 80® of total blend.

Seed Treatment: 0.5kg per ton of seed

Herbicides/Pesticides: 20-50g per litre or substrate.

UV protection:

Mixture of 0.1% (400g in 400l water/ha and 1m crown height).

Form of delivery

25kg Drum

**For further information, please contact:**

HUMINTECH GmbH, Heerdter Landstrasse 189/D
D-40459 Düsseldorf - GERMANY
Telefon: +49 (0)211 - 50 66 57 - 0
Telefax: +49 (0)211 - 50 66 57 - 22
Internet: www.humintech.com • info@humintech.com