

LEWATIT® HD 50 / Practical use of hydroculture slow-release fertiliser

General:

Ion exchangers such as LEWATIT® HD 50 are special fertilisers that are used to supply nutrients in hydroculture. With a single application of fertiliser, they ensure the plants are nourished for a period of 4 to 6 months. LEWATIT® HD 50 etc. are synthetic resin granules loaded with nutrients, which are available for professional use in 1- to 25-litre containers.

The weight of the fertiliser may vary depending on the moisture content. Opened containers may dry out, but this only affects the ability to pour the product. As a general rule, opened containers can be used for years without restriction. Store in a frost-free place.

Nutrient content:

Ion exchangers such as LEWATIT® HD 50 are known as NPK complete fertilisers, which release nutrients over a prolonged period of time (slow-release fertiliser). "NPK" stands for nitrogen, phosphorus and potassium. Furthermore, the trace fertilisers they contain provide complete plant nutrition.

Characteristics:

- 001 Ion exchange fertiliser does not dissolve as it is used; it just releases nutrients, so the depleted granulate ultimately remains in the planter.
- 002 It works by simply watering with ordinary tap water. LEWATIT® HD 50 etc. take up the salts naturally contained in water and release the stored nutrients in "exchange" (functional principle). This creates a nutrient solution in the planter.
- 003 Ion exchange results in the mild and long-lasting release of fertiliser in a plant-friendly concentration. Excessive fertilisation is not possible in principle. Each time tap water is added, the granules are reactivated, until the stored fertiliser has been used up after 4 to 6 months.

Application:

- 004 Add approx. 30 ml per 50 to 70 cm of plant height, per plant, every 4 to 6 months as follows:
Heap up an appropriate amount of fertiliser on the outer root area of the plant (planter edge), as far away as possible from the water level indicator, and pour water on it until it has all completely washed into the substrate in the planter.
- 005 It makes sense to time fertilisation to coincide with watering. Pay attention to the water level indicator to prevent overwatering.
- 006 Do not spread ion exchangers such as LEWATIT® HD 50 over the surface of the substrate! There is a risk that the fertiliser will not sink deep enough and reach the roots fully. However, the fertiliser only works when it makes contact with the water-bearing area of the hydroculture.

Recommendation:

For large plants over 2.5 metres, which should not generally be repotted, even over long periods (over 8 years), the installation of a fertiliser pipe and pouch is recommended. By using these, depleted ion exchanger can also be removed from the planter.

Important:

Ion exchangers such as LEWATIT® HD 50 works on the basis of its interaction with ordinary tap water. Distilled or osmotically treated water, mineral water and water from water-softening systems are not suitable for use as irrigation water. These can interfere with the function and consequently the nutrient supply. A simple water analysis will provide clarification as to the possible approach.

If you have any questions, please contact us at: www.hydro-klein@email.de