Technical Data Sheet Vici Fix

Product/trade Name: **Vici Fix**

Product Description: Vici Fix is a biostimulant which supports the plant root system of many crops by increasing water and nutrient use efficiency (especially phosphorous and micronutrients), thereby contributing to better plant development, tolerance to drought, heat, cold and other abiotic stresses as well as contributes to a greater yield.

Formulation: Spore Suspension Concentrate

Basic characteristics

Appearance: Brownish liquid with slight earthy sent
Density: 1.01 -1.05 kg/l

Composition

In-vitro produced spores of arbuscular mycorrhizal fungi *Rhizophagus irregularis* MUCL57021

(10 Million spores/L)

Guaranteed analysis	*Concentration*
Rhizophagus irregularis MUCL57021	10 Million spores/L

Direction of use

Shake well before use.

Application during transplantation/sowing guarantees the efficiency of mycorrhizal spore inoculation in the soil around the root system/seed.

Preparation of the application solution:

- A separate clean tank/container is recommended for the proper preparation and application of the products.
- Dilute Vici Fix in water (5 -10 times) volume in the clean tank/container reaching a spore concentration of 1000-2000 spores/ml.
- Add the correct concentration of Vici Fix according to crop and sowing density.
- Mix thoroughly.
- Dilute the product further in water reaching a desired spore concentration according to your crop (see table below). Add the diluted ViciFix to the application tank according to application method:
    - **Liquid in furrow**
    - **Substrate mix**
    - **Existing crops (Soil Injection)**
- The application tank/container should be filled with half the required water prior to adding the Vici Fix.
- Mix thoroughly.
- Fill up the application tank with water.
- Apply while agitating continuously.

Application as liquid in furrow:

- Use diaphragm pump for product application. Up and down agitation at all times in the tank (turbulent flow).
- Always apply Vici Fix to the sowing hole before placing the seed/seedling/plantlet.
- Make sure Vici Fix does not clog the application tool (filters with openings of at least 280 µm).
- Use disinfectants regularly to keep the application tools clean, but do not use Vici Fix at the same time as the disinfectant.
- Ensure that the liquid in furrow dose reaches the root zone/under seed.

Application as a substrate mix:

- Ensure that the substrate container is clean.
- Add diluted Vici Fix solution to wet substrate.
- Ensure good and homogeneous mix with substrate particles.
- Treated substrate can be stored up to 48 hours before use. Store the substrate between 8 -15°C (46-59 °F) and keep moist.

Application in existing crops (Soil injection):

- Ensure that the application tank of soil injection system is clean.
- Add diluted Vici Fix solution to the application tank.
- Follow instructions of injection system manufacturer (manual/pneumatic soil injector).
- Divide the plant dose rate over 4 injection points around the plant (root emergence zone).

The dosage of Vici Fix depends on the crop, growing substrate and climate and should always be adjusted according to the crop and to the conditions. See reference table below.

The following general rules apply:

- Application rates range from 0.010-1 L/ha.
- Application should be performed once during sowing/transplantation.
- Repeated application in different transplantation steps will reinforce root colonization and product effect.
- Consult a Reka advisor or a recognized distributor of Reka products for advice on the best strategy for your situation.

Crop	Plant density (Reference in field)	Application			
		Stage	Method	Rate (L/Ha)	#
Oil palm. date palm	200 plants/ha	Sowing in Nursery	Mix with substrate for pots / liquid in furrow	10-20 mL/ha (500-1000 spores/plant or pot = 0.05-0.10 ml/plant or pot)	**1**
		Transplanting in Nursery	Mix with substrate for pots / Root bath/ liquid in furrow		**1**
		Transplanting in field	Root bath/ liquid in furrow	50-100 mL/ha (2500-5000 spores/plant = 0.25-0.5 ml/plant)	**1**
		Existing crops	Soil injection in root zone of emerging roots		**1**
Avocado. Citrus. Pomegranate. Cacao. Mango	500 plants/ha	Sowing in Nursery	Mix with substrate for pots / liquid in furrow	25-50 mL/ha (500-1000 spores/plant or pot = 0.05-0.10 ml/plant or pot)	**1**
		Transplanting in Nursery	Mix with substrate for pots / Root bath/ liquid in furrow		**1**
		Transplanting in field	Root bath/ liquid in furrow	100-200 mL/ha (2000-4000 spores/plant = 0.2-0.4 ml/plant)	**1**
		Existing crops	Soil injection in root zone of emerging roots		**1**
Banana. Coffee	2000 plants/ha	Sowing in Nursery	Mix with substrate for pots / liquid in furrow	100-200 mL/ha (500-1000 spores/plant or pot = 0.5-1.0 ml/plant or pot)	**1**
		Transplanting in Nursery	Mix with substrate for pots / Root bath/ liquid in furrow		**1**
		Transplanting in field	Root bath/ liquid in furrow	200-400 mL/ha (1000-2000 spores/plant = 0.1-0.2 ml/plant)	**1**
		Existing crops	Soil injection in root zone of emerging roots		**1**
Grape. artichoke	5000 plants/ha	Sowing in Nursery	Mix with substrate for pots / liquid in furrow	25-50 mL/ha (500-1000 spores/plant or pot = 0.05-0.10 ml/plant or pot)	**1**
		Transplanting in Nursery	Mix with substrate for pots / Root bath/ liquid in furrow		**1**
		Transplanting in field	Root bath/ liquid in furrow	125-250 mL/ha (2500-5000 spores/plant = 0.25-0.5 ml/plant)	**1**
		Existing crops	Soil injection in root zone of emerging roots		**1**
Asparagus. Tomato. Pepper. Eggplant. Cucumber. Zucchini. Melon. Watermelon	20000 plants/ha	Sowing in Nursery/Field	Mix with substrate for pots / liquid in furrow	100-200 mL/ha (50-100 spores/plant or pot = 0.05-0.1 ml/plant or pot)	**1**
		Transplanting in field	Root bath/ liquid in furrow		**1**
		Existing crops	Soil injection in root zone of emerging roots	200-400 mL/ha (100-200 spores/plant = 0.01-0.02 ml/plant)	**1**
Pineapple. Raspberry. Potatoes. Legumes (Pea. green bean. Fava Bean). Fennel. Celery	50000 plants/ha	Sowing in Nursery/Field	Mix with substrate for pots / liquid in furrow	250-750 mL/ha (50-150 spores/plant = 0.005-0.015 ml/plant)	**1**
		Transplanting in field	Root bath/ liquid in furrow		**1**
		Existing crops	Soil injection in root zone of emerging roots	500 -1000 mL/ha (100-200 spores/plant = 0.010-0.02 ml/plant)	**1**
Strawberry. Onions. Garlic. Leeks. Leafy Crops. Carrot	200000 plants/ha	Sowing in Nursery/Field	Mix with substrate for pots / liquid in furrow	500-1000 mL/ha (25-50 spores/plant or pot = 0.0025-0.005 ml/plant or pot)	**1**
		Transplanting in field	Root bath/ liquid in furrow		**1**

**Compatible with 80-90% plant families (not Amaranthaceae. Brassicaceae. Commelinaceae. Cyperaceae. Fumariaceae. Ericaceae. Orchidaceae and Polygonaceae).*

***Test product effects on a small area and observe for unintended side effects for two weeks before large-scale applications. Do not use this product under anaerobic conditions.*

Safety Indications

General Precautions

Do not eat, drink or smoke during use. Wash hands and exposed skin before meals and after work. Avoid contact with skin, eyes and clothing. Avoid inhalation/breathing dust. Wear personal protective equipment (PPE) such as safety glasses, protective gloves and suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Keep out of reach of children and pets. Call a poison center or a doctor if you feel unwell. Treat symptomatically.

First Aid

After Inhalation: Move the person to fresh air and keep comfortable for breathing. If unwell, call a poison center or doctor.

After Skin Contact: Rinse thoroughly with soap and water.

After Eye Contact: Rinse eyes with water as a precaution. If symptoms persist, consult a doctor.

After Ingestion: Call a poison center or a doctor if you feel unwell.

Storage indications

The storage of Vici Fix shall follow the recommendations below:

- Store the product refrigerated (4°C/39°F - 8°C/46.4°F).
  - Vici Fix can be stored for six months from manufacturing date under refrigerated storage (4-8°C) conditions.
- Do not store outdoors or in direct sunlight.
- Keep away from heat.
- Do not freeze.
- Keep the product in its original bottle during storage and keep closed when not in use.
- Store in cool, dark and dry location.
- Do not store near food or drink.

Reka Netherlands B.V. and Reka Group B.V. are not liable for any direct or indirect loss whatsoever resulting from improper use of the product or non-compliance with the instructions for use.

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Bleiswijk

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