



**Soil-Zyme™ - Est. 1996**

**Bio-Chemical Soil Renovator**

## **APPLICATION INSTRUCTIONS**

**VERY IMPORTANT:** A small amount of fresh, elemental nitrogen must be applied immediately prior to each application of **Soil-Zyme™**. We recommend granulated urea at the rate of 300 grams per 100 square metres (30 kg per hectare). Nitrogen is critical in order to trigger the bacterial decomposition process. Ammonium sulphate can also be used but at 500 grams per 100 square metres (50 kg per hectare). We do not recommend dissolving the nitrogen with the **Soil-Zyme™** solution as burning can result. If applying **Soil-Zyme™** after your regular nitrogen fertiliser application, it must be done on the same day prior to the fertilizer being irrigated in. Severe yellowing of the turf may result if the nitrogen is omitted.

### **MIXING PROTOCOL**

- When mixing, always add the **Soil-Zyme™** to water, not water to **Soil-Zyme™** or excessive foaming will result.
- Do not mix or apply with any other chemical. **Soil-Zyme™** should not be applied 5 days before or after herbicides, insecticides or fungicides.
- When using a **Soil-Zyme™** management program, normal turf grooming and mechanical surface management practices should be carried on as usual.

### **DILUTION**

- For treatment of all ultra-dwarf bermudagrasses, Tiff-type bermudagrasses, all cultivars of bentgrass or any grasses prepared as putting or bowling surfaces, the recommended dilution rate is 50 litres water to 1 litre **Soil-Zyme™**.
- For all grass species (except bentgrasses) which are not prepared as putting or bowling surfaces, the minimum dilution rate is 25 litres water to 1 litre **Soil-Zyme™**.
- For all bentgrass species in any situation, the minimum dilution is 50 litres water to 1 litre **Soil-Zyme™**.

### **STORAGE**

As **Soil-Zyme™** contains no living organisms there is no need to store it in a temperature controlled environment. However, it should be stored away from direct sunlight at normal room temperature. DO NOT store the product mixed in diluted form. Once mixed with water the enzyme activates and needs to be applied promptly. **Soil-Zyme™** has an unlimited shelf life if stored as directed. In temperatures below 8 degrees Celsius the product may congeal into a jelly-like substance. It will not flow in this condition and will need to stand in a tub of warm water for about 30 minutes prior to decanting.

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### APPLICATION STEPS

As instructed, apply nitrogen immediately before applying **Soil-Zyme™** with each and every treatment.

- **First Application:** 7 litres per hectare (70ml per 100M<sup>2</sup>).
- **Subsequent Applications:** 3.5 litres per hectare (35ml per 100M<sup>2</sup>) every 8 - 12 weeks when problems are alleviated completely.

As there are no living organisms in **Soil-Zyme™** it can be applied at any time of day without risk of product deterioration.

Best results are achieved when soil temperatures are above 15°C measured at 100mm (4 inches) depth although significant benefits can still be seen at much lower temperatures.

In addition to visual evaluation of the turf surface, regular sampling and monitoring of the soil profile is recommended to prevent problems re-occurring.



**4 WEEKS AFTER APPLICATION**



**5 WEEKS AFTER APPLICATION**



**6 WEEKS AFTER APPLICATION**

### CONTACT DETAILS

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