

# Sovereign

## Mixing Guide

Sovereign soluble powder is a stable, dry formulation in a self sealing jar that, if unused, can be stored for one year. The formulation is readily soluble in clean water. Sovereign can be mixed directly into the tank with agitation running, and is ready to use in minutes.

Mixed solution of Sovereign can be stored in the application tank (provided the tank is out of direct sunlight on a hot day) for up to one week with no degradation of actives, ready to use when required.

Depending upon the fodder process, whether silage, haylage or hay, the application rates of Sovereign vary. Application rates are also dependant on moisture content to ensure high quality fodder every time.

Baling times are often limited, and growers and contractors have to maximise machine operational time, application rates of preservative solutions are, at times, low to ensure a tank mix is extended as much as possible.

Sovereign has the ability to be stable over a wide range of concentrations for ease of use. The graph below outlines a mixing guide for acceptable "concentration in solution" as may be required.

Always ensure adequate coverage of product on the fodder material. While a variety of applicators can be used, typically, good coverage is achieved by two nozzles located on/in the material "pickup". Different nozzle and pump configurations can be used to ensure best coverage possible.

Sovereign Soluble Powder										
Use	Moisture	Sovereign Grams/t a.i.	Water volume ml/tonne							
			3000	2000	1000	500	250	200	150	100
Silage	>50%	10	Green	Green	Green	Green	Green	Green	Green	Green
Silage	>50%	20	Green	Green	Green	Green	Green	Green	Green	Red
Hay	<25%	25	Green	Green	Green	Green	Green	Green	Green	Red
Hay	25-28%	33	Green	Green	Green	Green	Green	Green	Red	Red
Hay										

Key	
	Recommended
	Not recommended

**Note :** Silage with minimum moisture to ensile (haylage) requires more actives than high moisture silage. Whereas hay with higher moisture, above 25%, requires higher rates of actives to reduce moulds, fungi etc. that causes heat and browning.