

# Soilsmart



## Toughen-up

### Potassium Silicate

**Toughen-UP** is a Silica based material. Silica is defined as a ‘beneficial element’, and is found in all plants. Its foliar concentration varies from approx. 0.1% to 0.3% (on a dry weight basis), which is comparable to that of Phosphorus, Magnesium, and Sulphur (all of which are major elements).

Silica is often dubbed as the “Calcium organiser”, because it acts as a cross-linking agent that helps in the process of calcification of cell walls. Research also shows that the levels of Calcium and Silica rise concurrently, and that low levels of Silica lead to a slower build-up in Calcium.

<b>Si</b>	<b>K</b>
<b>14.5%</b>	<b>17% w/v</b>

Turf Apply as a foliar	Greenhouse & Orchards	Stone Fruit
5-10L/ha in 400-600L water	500ml/100L water every 4 - 6 weeks	500ml /Ha after petal fall and before pit hardening