



## New thinking in post-harvest applications



To add an additional element into the flow of the 'plant nutrient motorway' during post-harvest applications, the missing link would be Silicon, which plays an integral part in the absorption and translocation of macro and micro nutrients.

Once foliarly absorbed it is permanently deposited into cell walls within a matter of hours, increasing the plants ability to cope with greater stress tolerances due to increased cell strength. During the period of post-harvest recuperation, cellular repair is underway and new cells are being produced through regeneration in many species such as strawberry. Silicon is essential for all cell production as it creates a silica-cellulose framework between cell walls which reinforces structural integrity to provide a strengthening effect to overwintering crops.



### We recommend

**Sion** is a liquid silicon nutrient for foliar and irrigated application to increase the strength, growth and health of fruit crops. This fertiliser contains a unique form of silicon which provides a proven and balanced source of available silicon to the plant.

It boosts the strength of cells and increases the speed at which growth can be created thereby increasing overall growth potential of the plant. **Sion** offers improved plant cell development as well as maintaining cell integrity and plant strength. It can also increase nutrient activity, alleviate abiotic and biotic stresses, and reduce the susceptibility of fruit crops to pathogenic pressure.

### Additional Carbohydrate

Over the past three years EAE have been working with our partners in Europe on the enhancement of specific crop processes using active carbohydrate from our **Brix Builder** technology.

**Brix Builder** has proven a great success for processes such as dormancy breaking, increasing energy into the flowering period and fruit ripening; however one of the most effective periods of application appears to be post-harvest in conjunction with foliar urea applications. In tree fruits and nuts we have seen its use proliferate for the prevention of biennial bearing so much so a new product named **Bio-Boost** has been launched. We are now using it in the UK for aiding consistency of yield and quality in tree and bush fruit and with two years of data from applications in apples we are convinced it should have a regular place in post-harvest applications.

The technology uses a specific combination of naturally occurring biostimulant materials designed to aid the developmental stages of crop growth. It is rich in alginates, organic chelating agents, natural plant sugars, amino acids, polypeptides, vitamins and naturally occurring cytokinins. These work to provide carbohydrates, catalyse their use and increase transportation of carbohydrates to aid current crop processes. In post-harvest applications the package stimulates higher carbohydrate levels and increases transport and storage level.

Application is low at just 0.5-1.0 litres per ha with just 1-2 applications required to make a significant difference.

*For further information contact your EAE advisor - downloads are available on the following link.*

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[CLICK HERE for more information on this technology](#)

[www.engageagroeuropa.com/speciality](http://www.engageagroeuropa.com/speciality)

Contact us

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