

## Optimise SACOA's SE14® with correct placement

SE14® is a moisture attraction and retention agent designed to be placed with the seed in the furrow. SE14 has the ability to be tank mixed with other nutrition and crop protection products already being applied by growers through their liquid kits.

### SE14® Placement with Single Liquid Tanks:

Normally air seeders with liquid kits are set up to have separation between the seed and UAN to minimise the risk of fertiliser toxicity. However, with SE14 there are several setups that make it possible to place liquid UAN and SE14® in close proximity to the seed:

- separating compound fertiliser from the seed
- using paired row sowing boots to dilute the amount of fertiliser per metre of crop row
- reducing the rate of UAN and/or adding water
- top dressing NKS fertilisers in crops that are small seeded and more susceptible to fertiliser toxicity, such as canola
- using a secondary liquid tank and lines to allow two liquid products to be applied independently.

With UAN typically recommended to be delivered to within 2-5 cm of the seed, most liquid systems deliver the product behind the opening tyne to ensure adequate seed : UAN separation. SACOA suggests this placement may not achieve optimum SE14® results whether the product is banded with water alone and/or in combination with UAN.

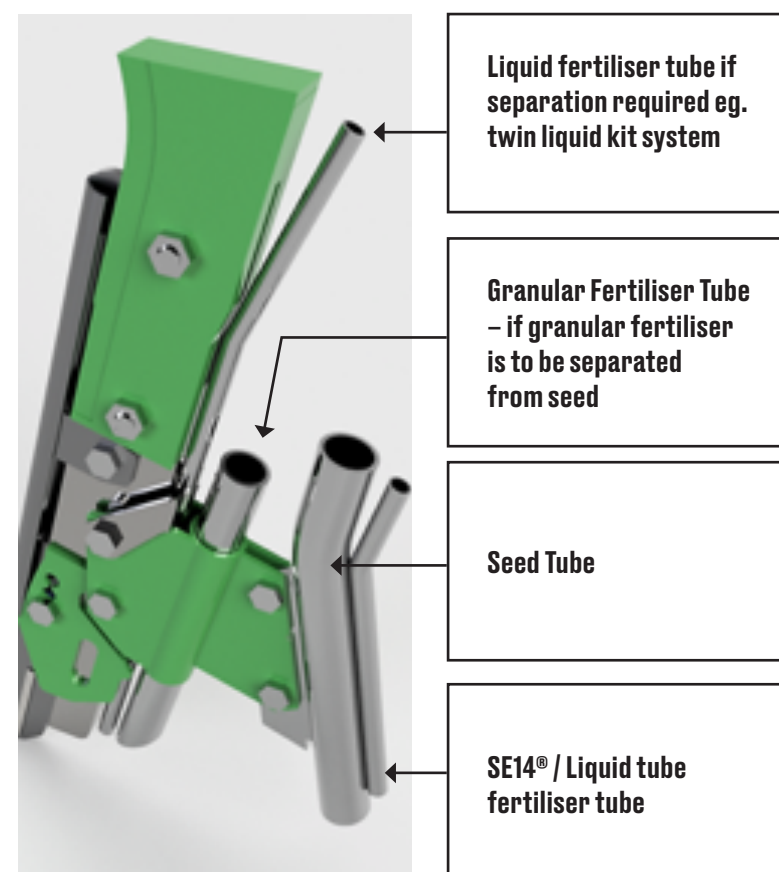
The key to delivering maximum crop response when using SE14 is to make adjustments to the liquid placement system so the delivery tube is positioned directly behind the seeding boot.

SE14® was applied to furrows at 2.7L/ha in 47L water. In the middle 4 furrows, SE14® was banded where UAN usually goes behind the front tyne of DBS. This resulted in germination rates of 6.6 lupins/m row (53 DAS). In the remaining furrows to the left and right, the same solution of SE14® was delivered behind the seeding boot and in front of the press wheel. This placement resulted in germination rates of 11.7 lupins/m row (53DAS), an increase of 77%. Early plant vigour was also markedly increased.



In the rows on the right, Nil SE14 was applied to the furrows. This resulted in germination rates of 7.9 lupins/m row (40DAS). In the rows on the left, SE14® was applied at 3L/ha in 47L of water. Applying SE14® increased lupin germination to 10.2 lupins/m row, an increase of 29% and ultimately yield increase of 25% (270kg/ha)

### Ideal (generic) seeding boot module with SE14 tube directly behind seed tube for precise placement:

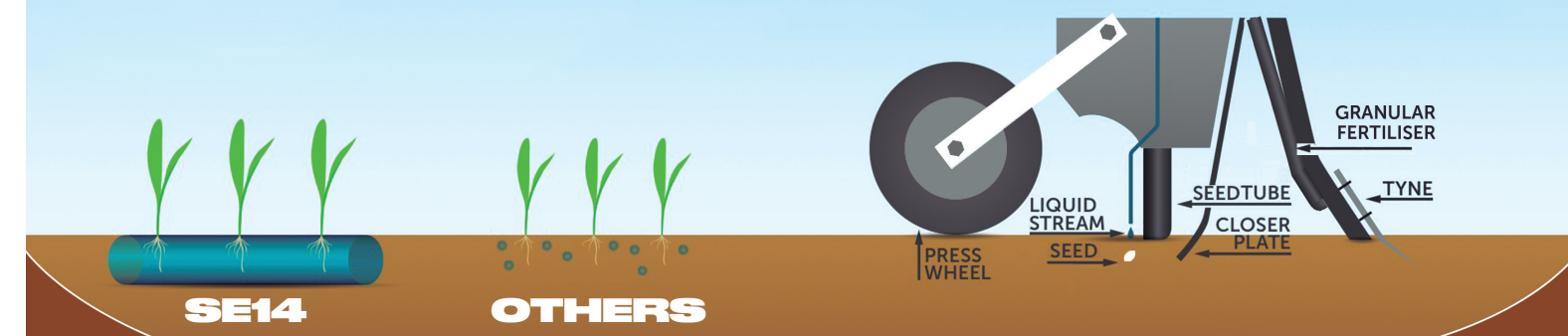


## Liquid delivery into furrow is easy with FMSA Friction Flow™

### WHAT IS IT?

#### CROP ESTABLISHMENT TOOL

Creates a favourable environment for the germinating seedling increasing soil water capacity around the seed and keeping nutrients solubilised for uptake.



### HOW TO USE IT?

#### INJECT AS CLOSE TO THE SEED AS POSSIBLE

Improved seed germination, vigour and nutrient uptake by attracting and retaining moisture around the seed when banded with water and/or liquid fertilisers.

SIMPLICITY, ease of use and installation, virtually blockage free, reduces overall cost related to complexity of system and blockage related downtime.

Friction Flow™ uses a larger internal diameter tubing over distance to create an even and accurate metering system. This unique design gives Friction Flow™ a greater range of application rates and minimal chance of blocking when using the most complex liquid product combinations.

Ausplow, an agronomy-focused tillage manufacturer nominated WA based Furrow Management Systems' (FMSA) as its preferred supplier of a liquid metering system, using Friction Flow™ tubing for its DBS bars, plumbed to its liquid enabled Multistream air seeder - liquid components supplied by FMSA.

Liquid injection into furrow delivers vital moisture and nutrients to the seed when it needs it the most, with the ability to use smaller particle sizes, having more rapid the uptake by plants in a diffuse-on-application cocktail gives that seed an edge - early establishment with plant ready vital nutrients.

Liquid delivery lines can be set in any configuration to suit with modular non-drip nozzle bodies, mounted high for protection and easy access.

The Friction Flow delivery manifolds

are designed in modular banks across the bar, matching the exact number of outlets as the air delivery manifolds they mount beside - this eliminates the need to block outlets on a non-modular type manifold, which creates low velocity areas inside the manifold where sediments will deposit and eventually dislodge and cause blockages - it also makes for a clean, tangle free installation, tubing follows existing air delivery kit for easy plumbing and added protection to your liquid lines.

Upgrading to sectional control is

simple and affordable, using all existing plumbing and bracketry.

The key to the injection system's precision accuracy is the WA-designed and Australian-made Friction Flow™ tubing, which easily meters a wider range of predefined and variable rate applications with greater flexibility, achieving better flow rate ranges at lower operating pressures.

Low-pressure liquid rate control allows the user not-before-seen rate ranges made possible by starting minimum rates at the lowest possible operating

pressure, leaving all the pressure headroom achieved by the pump to be effectively used according to the application programme.

Friction Flow™ tubing makes this possible by creating a high velocity liquid current which produces a solid stream at low pressure for precise placement in the furrow.

The Friction Flow™ can handle a wide range of products and rates while reducing system failure due to high pressures, unnecessary over filtering and metering device blockages.

The tubing itself is made from the highest-grade Nylon 12 we could source, from France, the raw material is used to manufacture Friction Flow™ in Australia. With a minimum wall thickness of 2mm, Friction Flow™ tubing is the hardest wearing solution for delivery into furrow.

Join thousands of liquid users and make it easy with Friction Flow™ and Furrow Management Systems to guide you into furrow.



# SE14® + THE MOST EFFECTIVE

## DEFENCE AGAINST NON WETTING SOIL THE SEASON STARTS WITH SE14



# FMSA & FRICTION FLOW™

WA leaders in Friction Flow™ and Furrow Injection Modules (FIM) for liquid Injection, Furrow Management Systems Australia (FMSA) now have a delivery system that reduces system failure due to blockages and high system pressures. We're revolutionising the way liquid UAN and other cocktail tank mixes are used to improve in-furrow, trace elements, crop production and improvements at seeding.

Our liquid injection FIM units are Variable Rate and Section Control ready, can be integrated into existing or new seeding systems and our Friction Flow™ Kits are easily adapted to existing liquid kits, improving liquid delivery efficiency.

FMSA offer tailored liquid delivery solutions for WA growers.

