

Seasol Applications

Frost Management

For best results using Seasol for increased cold tolerance:

- ✓ Start early in the season
- ✓ Spray immediately forecasts indicate a developing risk
- ✓ DO NOT tank-mix with pesticides

NB. For more details and alternative strategies, see page 2.



The susceptibility to frost damage can be a significant production risk, especially during early growth stages.

Seasol for Cold Tolerance

Effective frost management requires a multi-faceted strategy.

As part of such a program, Seasol is effective in providing improved cold-stress tolerance within 5-7 days of a foliar application. Applied at 10L/ha its effects can last for 2 to 3 weeks.

In all cases, Seasol should only be used to improve the effectiveness of the existing frost management system – not to replace it.

However, even the best protected crops can sometimes still be damaged by frost. Should damage occur, Seasol can also be used to aid re-growth and recovery.

Here are the key points to remember when using Seasol to help increase cold-stress tolerance:

1. **Spray or Fertigate?** The use of Seasol via irrigation can help increase cold tolerance, but it takes 10 to 15 days for full effectiveness. Foliar sprays need only 5 to 7 days to achieve the same result, but are less effective early in the season, without sufficient leaf area available
2. **Do NOT Tank-mix.** Pesticides may be compatible with Seasol for general purposes, but field experience shows they may reduce cold tolerance benefits.
3. **After a Frost.** When plants are damaged by a frost, it is important to stimulate healthy new growth. Seasol can be used through fertigation or foliar sprays to aid this process.



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Some extra tips on using Seasol for cold tolerance:

✓ Apply to the soil (10L/ha via micro-fertigation or 5L per mm via spray-fertigation) early in the season, or

Foliar spray 10L/ha as soon as weather forecasts show a developing risk (at least 5-7 days prior)

✓ For best results include a post-harvest application in the season prior, to help ensure good plant health from the very beginning of the season.

USING SEASOL FOR COLD-STRESS TOLERANCE		
STAGE	TIMING	RATE
Prime for cold	start as early in the season as possible, or (for perennial crops), use a post-harvest application the season prior	10L/ha
Prepare for cold	2-4 applications every 3-4 weeks depending on weather	5L/ha
Pending Frosts	Seasol foliar spray as soon as forecasts show developing cold conditions	10L/ha
Post-frost recovery	Use a post-harvest application (for perennial crops), or start as early in the season as possible	10L/ha

Seasol *plus* Iron



Iron is one of the most troublesome plant nutrients.

The plant available form (Fe^{+2}) is often immobile in the soil, while its more soluble form (Fe^{+3}) is mostly present only in wet or waterlogged conditions.

This is why Iron insufficiency is the most common of all plant nutrient problems.

When a lack of Iron occurs, cold-stress tolerance suffers. This makes Seasol plus Iron especially valuable for ensuring a strong reliable response under all conditions.

Developing increased cold-stress tolerance requires increasing the internal concentration of plant cells, but this in turn requires increased uptake of nutrients, such as Nitrogen, by the roots.

Achieving all this in the shortest possible time, there should not be even the slightest insufficiency of Iron, which is why Seasol with Iron is so much better for critical issues such as cold-stress tolerance.

Again, perennial crop growers tell us the results are better when a post-harvest application went on the year before.



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