



# Presal

Prevent & Correct  
Salinity Stress



# Presal

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# Presal



Our Presal salinity stress reducing solutions are available in multiple product options from both liquid and water soluble formulations.

For salinity stress prevention and nutritional input, NovaTec® Presal Fluid and NovaTec® Solub Presal provide the perfect solution. Both contain a DMPP nitrification inhibitor delivering optimum nutrition and reduced leaching with up to 10 weeks longevity.

When salinity stress & sodium levels are high, a corrective approach is needed. Kamasol® Presal SP displaces sodium from soils, replacing it with Calcium while also improving soil structure and strengthening cell membranes.



All **Presal** products are part of our our “**Sustainable Application**” product strategy. Products marked with these various icons aim to provide the end user with a sustainable solution to managing sports turf surfaces thats better for the environment and user. This icon highlights the Enhanced Water Use Efficiency, Enhanced Greenhouse Gas Efficiency and Enhanced Nutrient Use Efficiency.



# Presal

What is Salinity Stress?



## Salinity Stress

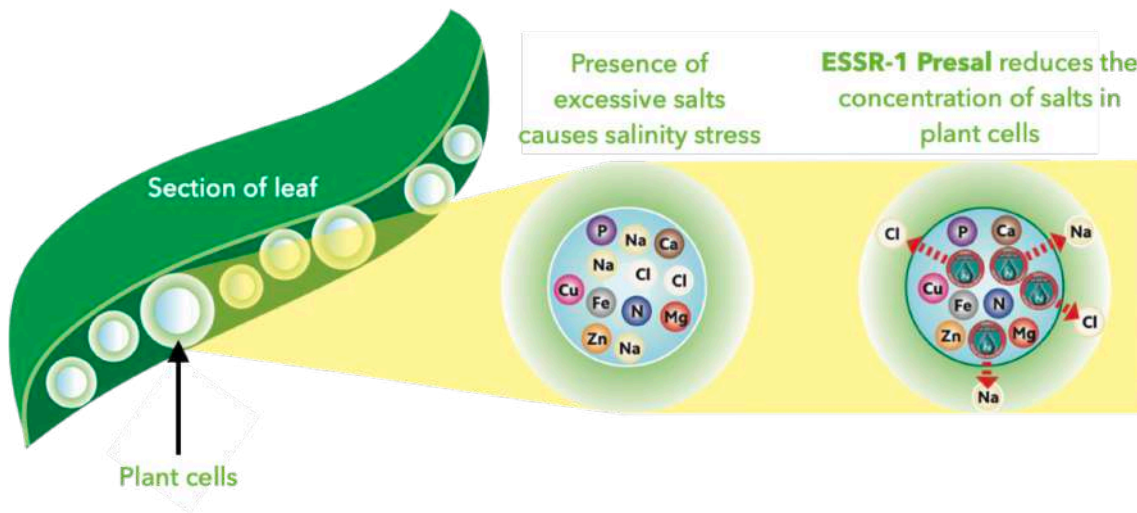
Salt stress occurs as a result of excessive salt accumulation in the soil whereby the plant cannot up-take water it needs with roots. Salinity composes stress by damaging ionic and osmotic balances in plants. Osmotic stress caused by increasing the amount of salt in soil, decreases the amount of water that the plant uses and as a result physiological drought occurs.





# Presal

## ESSR-1 Elicitor Salt Stress Relief.



- Protects DNA & integrity of cell membranes
- Accelerates bio-accumulation of protecting compounds
- Induces Plant Immune Responses
- Higher tolerance of abiotic stress
- Uptake by roots & leaf
- Increase tolerance of turf to salinity stress



# Presal

**NovaTec® Solub Presal.**



NovaTec® Solub Presal is a water soluble fertiliser with DMPP nitrification inhibitor (NET) and ESSR-1 elicitor. The ESSR-1 elicitor prevents and modulates the turf response to situations of saline stress, reducing the productive losses due to salinity. Easy to apply as a fertiliser, that combats salinity with an internal plant response and external soil response.

**20% ammonium, 1% ESSR-1**

Analysis	20	0	0	2	58
kg/ha	N	P	K	MgO	S
20	4	0	0	0.4	11.6
40	8	0	0	0.8	23.2
60	12	0	0	1.2	34.8

## Application

Pack size - **25kg**

Application rate - **20-60 kg/ha**

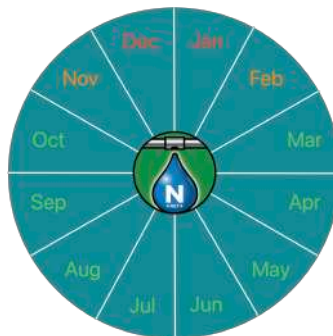
Water volume - Foliar **400-600 L**

Soil - **800-1000 L**

Frequency - **Every 4 weeks\***

\* depending on environmental factors and salinity stress

## Application timing



## Areas of use

- ☒ Greens
- ☒ Tees
- ☒ Fairways
- ☒ Stadia
- ☒ Outfields
- ☒ Lawns





# Presal

## NovaTec® Presal Fluid.



NovaTec® Presal Fluid combines the benefits of DMPP, a nitrification inhibitor, with the unique elicitor ESSR-1 in a liquid form. The elicitor acts as an osmoregulatory and osmoprotective molecule inside the plant and activates the plants' immune defense system. This way, the plants can tolerate salinity stress much better, which results in improved turf health.

**7.8% nitrate, 7.7% ammonium, 1.2% organic, 14% ESSR-1**

Analysis	17	0	0	2
kg/ha	N	P	K	MgO
20	4	0	0	0.48
40	8	0	0	0.95
60	12	0	0	1.43

### Application

Pack size - **10L**

Application rate - **20-60L/ha**

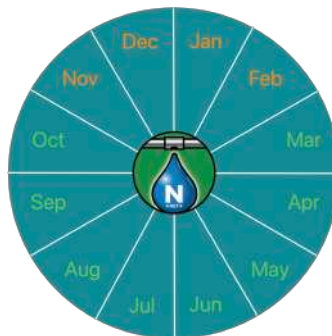
Water volume - Foliar - **400-600 L**

Soil - **800-1000 L**

Frequency - **Every 4-8 weeks\***

\* depending on environmental factors and salinity stress

### Application timing



### Areas of use



Greens



Stadia



Tees



Outfields



Fairways



Lawns



# Presal



Kamasol® Presal SP is a water soluble organic calcium formulation with ESSR-1 elicitor specially designed to correct high salinity problems. The calcium allows the sodium content of the soil complex to be displaced. The new ESSR® technology: ESSR-1 elicitor, allows the plant to work internally to develop & enhance its own immune system and minimise the negative effects of salinity.  
**28% CaO, 20% ESSR-1**

## Kamasol® Presal SP.

Analysis	0	0	0	28
kg/ha	N	P	K	CaO
20	0	0	0	5.6
40	0	0	0	11.2
60	0	0	0	16.8
80	0	0	0	22.4
100	0	0	0	28

### Application

Pack size - **25kg**

Application rate - **20-100 kg/ha**

Water volume - **800-1000 L**

Recommended to apply with a surfactant (Kick®)

Frequency - **Every 4 weeks\***

\* depending on environmental factors and salinity stress

### Application timing



### Areas of use

- ☒ Greens
- ☒ Tees
- ☒ Fairways
- ☒ Stadia
- ☒ Outfields
- ☒ Lawns



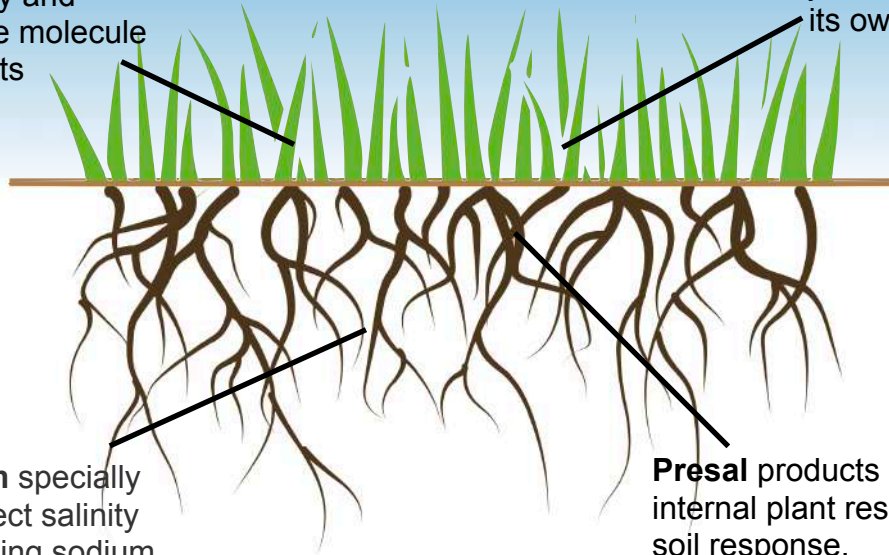


# Presal

## Summary.

**ESSR-1** elicitor acts as an osmoregulatory and osmoprotective molecule inside the plants

**ESSR-1 elicitor** allows the plant to work internally to develop & enhance its own immune system



**Organic calcium** specially designed to correct salinity problems displacing sodium from soil complex.

**Presal** products combat salinity with an internal plant response and external soil response.



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