

RUSTICA TIME RELEASE[®] CR-N44

CONTROLLED RELEASE NITROGEN

- Long Term sustained N Release over 90-120 days
- Ideal for both pastures and crops
- Higher N recovery and efficiency
- Reduced potential leaching
- No Volatile N Losses
- Use at 65-75% of standard Urea rates
- Reduces N inputs in Overseer
- Less applications, less cost
- Environmentally friendly

REDUCES
N INPUTS IN
OVERSEER

APPLICATION RATE GUIDELINES:

Rustica[®] Time Release is a range of Controlled Release Fertilisers (CRFs).

Release rates will vary according to grade selected, the soil temperature, and the availability of adequate moisture to activate them. In excessively wet conditions, these CRFs do not release any faster which means low losses to leaching. Because in the case of CR-N44 and CR-NK, there is no volatilisation of N, they provide much higher N efficiency due to the metered release of N over time. Because there are no gaseous losses, application can occur in dry conditions.

FODDERCROPS

Fodderbeet: This crop has a high demand for Potassium so Potash should be applied in the base dressing, especially in second and subsequent years on the same ground. Drilling with **Rustica[®] Kickstart** is an ideal starter fertiliser with a balance of NPKS to get the crop established. **Rustica CR-NK** is sidedressed @ 210-250kg / ha at 4-6 leaf stage, and before canopy closure. No further dressings should be required.

Kale: Apply 110kg/ha (Dryland) or 210kg/ha (Irrigated) Rustica CR-N44 at 4-6 weeks post emergence. This should carry the crop through without the need for further applications.

Maize: Depending on deep N soil test results, paddock history, and amount of starter N applied, aim to supply a total of 220kg N/ha for a 20mt crop. Apply the balance of N as Rustica CR-N44 calculated at 65% the rate it would be applied as Urea. e.g. 100kg N = 220kg Urea x 0.65 = 145kg/ha Rustica CR-N44. No further dressings should be required.

DAIRY PASTURE

Apply **Rustica CR-N44** at 65-70% the rate of standard Urea/Sustain/N-Protect in **ONE application** which should be enough to last 90-120 days, ie., if 3x 100kg Urea normally applied, use 1 x 195-210kg CR-N44. As there are no volatile losses with Rustica CR-N44, dry weather application is fine, and N efficiency is superior to standard alternatives. As less N is applied, that counts in Overseer to reduce N loadings overall.

APPLICATION:

Spread through conventional equipment, however if any dust is observed, back off the spinner speed rpm until no further dust is evident. Some spreaders have an aggressive action that will damage the coating causing premature release of the contained nutrients. Bredal spreaders need to be set at no more than 550-600rpm on Shute setting 7.5-8.0 to deliver an even 24m spread width without damage to the coating.

AVAILABLE FROM:



Viable Agriculture Ltd
P O Box 29, Ashburton 7740
Ph: 03 307 7100
Mob: 027 836 3727
orders@viableagriculture.co.nz
www.viableagriculture.co.nz

RUSTICA TIME RELEASE[®]

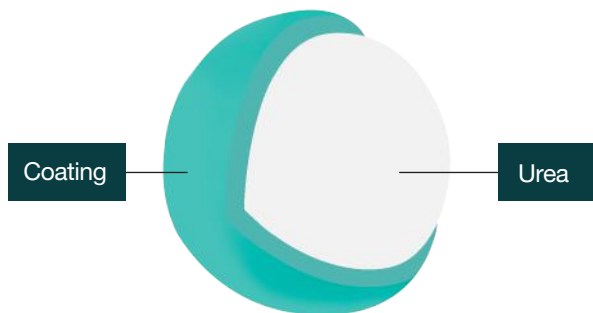
CONTROLLED RELEASE FERTILISER



Distributed in New Zealand by Agri NZ Ltd.
Cell: 0274 905 946 • Email: agrinzl@xtra.co.nz



Biodegradable Plant Based Resin COATING TECHNOLOGY



RUSTICA TIME RELEASE CRFs are fertilisers made by coating Urea and Potash with biodegradable plant based resin coatings, the number of which will determine the nutrient release characteristics, ie, the more coatings, the longer the release.

Nutrient supply is continuous and stable, slower in cooler conditions, faster when warmer. The same conditions that control plant growth rates apply to the nutrient release from these CRF's.

In soils, the absorption of water by these CRF granules occurs because of Osmotic pressure, ie, high concentration of nutrient (salt) inside the granule causes moisture to be pulled into the granule via minute pin holes in the coating where it is dissolved in water causing the granule to swell. As the swelling increases over time more nutrient is released, until all the salts are dissolved and release is complete.

The key release factors that determines release rate are temperature, followed by moisture, followed by coating thickness.

RUSTICA TIME RELEASE® CR K42

Rustica CR K42 (NPKS 0-0-42.3-0) is a biodegradable plant-based resin coated onto spherical MOP granules with a release time of 90-120 days depending on soil temperatures and moisture availability.

Using Rustica CR K42 on Dairy pasture will ensure a steady availability of K without causing metabolic disorders such as Milk Fever or Grass Staggers by reducing luxury uptake of K. Soil nutrient antagonism with Mg and Ca is avoided.

Use at 65-75% rate of Standard MOP either alone or in fertiliser mixes. Take care when mixing that mixing equipment does not damage the coating. Avoid screw type mixing equipment and screw type augers for this reason. Ideally CR K42 should be applied alone or as Rustica CR NK to avoid mixing damage.

When spreading avoid excessive spinner RPM that will damage the coating and cause premature release.

Rustica CR NK (NPKS 26-0-17-0) is a 60:40 factory blend of CR N44 and CR K42 designed specifically for Fodderbeet and other Fodder crops, also for direct application to Dairy Pasture. Release time is 90-120 days .

Both grades are ideal on Peat, sandy, or lighter soils where K is more prone to leaching.

RUSTICA TIME RELEASE® CR N44

Rustica CR N44 contains 44% Nitrogen encased in a biodegradable plant-based resin designed to release over 90-120 days.

