nem

EasyBond *Genesis*

Seed Enhancement

Enhances survival rates of Rhizobium cells by providing a protective coating.

On-Seed Application

For use with Easy*Rhiz*™ Vial Concentrate Legume Inoculant

STORE IN A COOL DRY PLACE

100g

Directions for use:

STEP A
Preparation: Easy*Rhiz*™ Vial

1. Select correct inoculant group type for the legume seed being sown.
   To select correct group type for the legume seed, refer to NEM's Legume Inoculant Group Chart.
2. Remove cap and rubber bung from Easy*Rhiz*™ Vial.
3. Fill vial to the shoulder with water. Return bung, shake until the contents are dissolved.

STEP B
Preparation: EasyBond Seed Enhancement

EasyBond can be used:

- In liquid inject systems ***OR***
- For seed coating

Instructions for each method follow:

In Furrow via Liquid Injection Method

1. Determine the number of vials required to treat the sowing area (*see formula and example tables below*).

   Using the following formula will determine the number of vials required to be added to the injection tank to achieve the minimum necessary amount of rhizobia in the seed furrow. The suggestion is that the number of vials are rounded up to the next whole vial as part vials do not store.

   Example formula for number of Easy*Rhiz*™ vials per 1000 L

$$\left[\frac{\text{Sowing rate (kg per ha)}}{\text{Kg of seed treated per vial}}\right] \div \left[\frac{\text{Water rate (L per ha)}}{\text{1000 L (Tank size)}}\right]$$

   The following 2 tables show how the variables of seeding rate (kg/ha), seed per vial (kg), liquid injection rate (L/ha) and injection tank volume (L) influence the Easy*Rhiz* concentration required in each injection tank.

Crop	Faba Bean
Sowing rate (kg/ha)	120
Seed treated per vial (kg)	500
Easy*Rhiz*™ vials/ 1000 L	2.4
Rounded up to full vial	3

Crop	Lentil
Sowing rate (kg/ha)	80
Seed treated per vial (kg)	250
Easy*Rhiz*™ vials/ 1000 L	3.2
Rounded up to full vial	4

Injection Water rate (L/ha)	100
Tank volume (L)	1000

Tables show examples of how sowing rate (kg/ha) and water inject rate (L/ha) directly influence the number of vials required per 1000 L injection tank.

2. The application rate of rhizobia required per liquid injection tank is dependent on seed sowing rate (kg/ha), kg of seed treated per vial (kg), injection water rate applied (L/ha) and injection tank volume (L). Row spacing can vary from 20 to 50 cm but inoculation rates are calculated on seeding rate as kg/ha.
3. Add the reconstituted Easy*Rhiz* vial(s) into the bucket containing 1 L of EasyBond. Rinse the vial out thoroughly to ensure entire contents are removed.
4. Fill spray tank of your liquid injection system with cool, clean, non-chlorinated water (pH between 6.5 and 7.5) and incorporate the 1 L of rhizobia inoculant preparation while filling.
5. Apply the mixed solution directly in the planting furrow.

On-Seed Application Method

1. In a clean bucket, dissolve the EasyBond contents in the appropriate amount of cool, clean, non-chlorinated water (pH between 6.5 and 7.5) based on size of seed being treated (refer to table below for suggested volumes of water). **NOTE:** Using less water will shorten drying time but may reduce seed coverage.

Mixing Ratios for On-Seed Applications		
Weight	**Seed Size**	**Water Rate**
50 kg	Small	0.75 L
250 kg	Medium	1.5 L
500 kg	Large	3 L

NOTE: The water rates in the above table are a general guide as to what water rates can be used. Variation in seeds including size, shape, surface profile and permeability alters the efficiency of coverage, absorbance and drying time. Sufficient slurry volume (Easy*Rhiz* + EasyBond + water) needs to applied to allow the slurry to mix and spread throughout the seed, without over wetting.

2. Add the reconstituted Easy*Rhiz* vial into the bucket with the EasyBond solution. Rinse vial out thoroughly to ensure entire contents are removed. Mix the solution thoroughly.
3. Apply solution to the correct weight of seed and mix until all seeds are evenly coated.

Best Practice Tips:

- Rhizobium must make contact with the seed.
- Use cool, clean, non-chlorinated water (pH between 6.5 and 7.5).
- Sow treated seed within 5hrs.
- Apply into moist soil conditions (not suited to dry sowing).

Double Inoculation:

If planting legume into the paddock for the first time, double the concentration of inoculant. (i.e. 2 x Easy*Rhiz* & 2 x EasyBond – keep water ratio standard).

Precautions: Do not use if sowing into soil that is over 35˚C. Do not freeze. Keep out of direct sunlight. Do not use beyond the expiration date. Avoid contact with eyes and/or inhaling dust – may cause irritation.

Pesticides: Most seed treatments, pesticides and trace elements are toxic to Rhizobia. Check with NEM for compatibility.

Fertilisers: Do not mix inoculated seed with highly acidic or alkaline fertilisers as Rhizobia numbers will deteriorate rapidly. Excessive use of starter Nitrogen or high soil nitrate levels can delay or reduce nodulation.

Warranty: As the manner of use of this product is beyond the company's control, no warranty is given other than those warranties implied by the Competition and Consumer Act 2010. In any event, liability of the company is limited to replacement of this product or the payment of the cost of doing so.

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