

X nem EasyBond Genesis

Seed Enhancement

Pasture & Pulse Legume Crops

Rhizobium – Protectant Formulation

Enhances survival rates of Rhizobium cells by providing a protective coating. For use with EasyRhiz™ Vial Concentrate Legume Inoculant







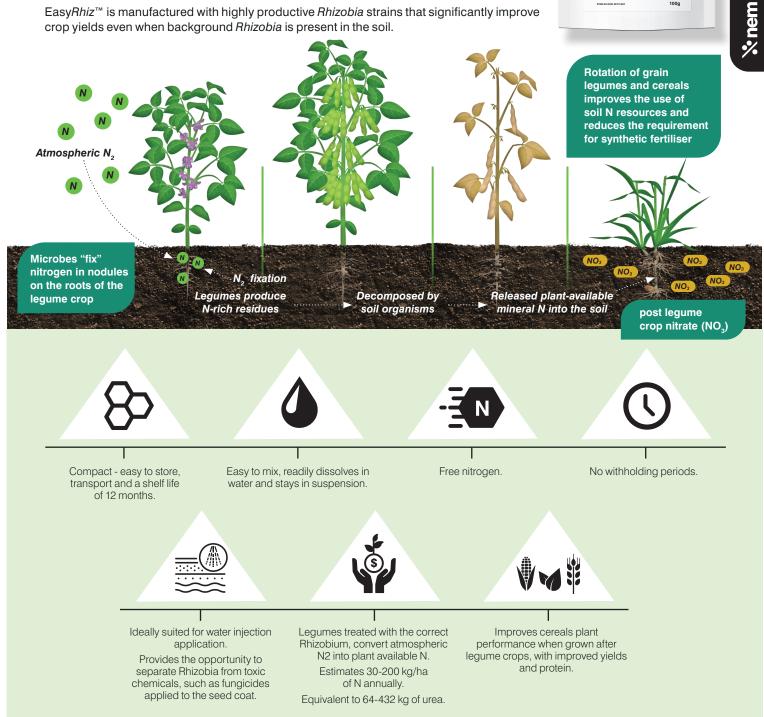




Benefits: X nem of Rhizobia Technology EasyBond Genesis

Soil bacteria called Rhizobia works together with legume plants to take atmospheric nitrogen (N²) found in soil air spaces and 'fixes' it to the plant root system to form root nodules.

EasyRhiz[™] is manufactured with highly productive Rhizobia strains that significantly improve crop yields even when background Rhizobia is present in the soil.





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SEED ENHANCEMEN EASYBOND GENESIS TDS / PAS

EasyBond Genesis

Rhizobium Protectant

BENEFITS	EasyBond <i>Genesis</i> improves the survivability of Rhizobium by reducing osmotic shock and desiccation, whilst also improving on-seed adhesion
HOW IT WORKS	EasyBond <i>Genesis</i> is a water-soluble powder that helps buffers water to nourish and protect cells during reconstitution. EasyBond also helps to stick and protect Rhizobium bacteria when applied on-seed.
DOUBLE INOCULATION	 Double the inoculant rate is recommended for the following scenarios: If planting a legume crop int to a paddock for the first time Paddocks with greater than 4 years without a legume Acidic soils Dry or wet weather conditions Prolonged periods between treating and sowing Where herbicide residues (particularly Group B and I) or other seeds treatments are being Ratio for double rates - 2 x EasyRhiz[™] Vials are mixed with 1 x EasyBond Genesis, and keeping the water ratio standard.
PROCEDURE	In a clean bucket, dissolve the contents of one EasyBond <i>Genesis</i> sachet in 1 L of cool, clean, non-chlorinated water (pH between 6.5 and 7.5). Add desired inoculant (EasyRhiz [™] vial or NoduleN [™]) and adjust final volume to required levels. Note: If increasing the inoculant rate, use 1 sachet of EasyBond and keep the water ratio standard.







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EasyBond Genesis Application Rates & Methods

Choose either method:

In-Furrow via Liquid injection. OR • On-Seed Application.

On-Seed Application Method

Procedure

- 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 EasyRhiz[™] Vial.
- 3. Fill EasyRhiz[™] vial to the shoulder with cool, clean, non-chloronated water (pH between 6.5-7.5). Return bung, shake vigorously and leave the vial to stand for 30 minutes until the entire contents are reconstituted.
- 4. In a clean bucket, dissolve the EasyBond *Genesis* 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 Rations 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 (EasyRhiz¹ + EasyBond *Genesis* + water) needs to applied to allow the slurry to mix and spread throughout the seed, without over wetting.

- 5. Add the reconstituted EasyRhiz[™] vial into the bucket with the EasyBond Genesis solution. Rinse vial out thoroughly to ensure entire contents are removed. Mix the solution thoroughly.
- 6. Apply solution to the correct weight of seed and mix until all seeds are evenly coated.

NIL withholding period. Do not open the pack until ready to use. Refer to the Safety Data Sheet (SDS) before using. Gloves and face masks should be used while preparing and applying the product.



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EasyBond Genesis Application Rates & Methods

Choose either method:

In-Furrow via Liquid injection. OR • On-Seed Application.

In-Furrow via Liquid Injection Method

Procedure

- 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. 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 EasyRhiz[™] vials per 1000 L



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 $Rhiz^{TM}$ concentration required in each injection tank.

Сгор	Faba Bean		Сгор	Lentil		
Sowing rate (kg/ha)	120	Т	Sowing rate (kg/ha)	80		
Seed treated per vial (kg)	500		Seed treated per vial (kg)	250		
Easy <i>Rhiz</i> ™ vials/ 1000 L	2.4		Easy <i>Rhiz</i> ™ vials/ 1000 L	3.2		
Rounded up to full vial	3		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.

EasyBond Genesis

- 3. Remove cap and rubber bung from the required number of EasyRhiz[™] Vial(s).
- 4. Fill each individual EasyRhiz[™] vial to the shoulder with cool, clean, non-chloronated water (pH between 6.5-7.5). Return bung, shake vigorously and leave the vial to stand for 30 minutes until the entire contents are reconstituted.
- 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.
- 6. Add the reconstituted Easy*Rhiz*[™] vial(s) into the bucket containing 1 L of EasyBond *Genesis*. Rinse the vial out thoroughly to ensure entire contents are removed.
- 7. 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.
- 8. Apply the mixed solution directly in the planting furrow.

Note: Ideally, the solution should be in contact with the seed at sowing.

NIL withholding period. Do not open the pack until ready to use. Refer to the Safety Data Sheet (SDS) before using. Gloves and face masks should be used while preparing and applying the product.



EasyBond Genesis Legume Inoculant Chart

Biological Nitrogen Fixation.

Biological Nilrogen Fixalion.			Weight of Seed Treated per Pack (kg)				litv		
Group Type Legume		o		Peat Concentrate				Seasonality	
	Legume	Strain		Host Plant Common Name	Standard	Jumbo	Mega	Vial	Sea
. 1	Lucerne	RRI128	Lucerne, Alfalfa, Stra	nd and Disc Medics	-	125	250	100	
· I	Lucerne	SRDI736	Acid Tolerant	Lucerne	-	65	125	-	
1 1	Medic	WSM1115	Barrel, Burr, Snail, Sp	here, Gama and Murex Medics	-	* 250	* 500	-	
١	White Clover	TA1	White, Red, Strawber	ry, Alsike, Berseem Cluster and Suckling Clovers	-	125	-	-	
	Sub Clover	WSM1325	Crimson, Cupped, He	elmet, Rose and Subterranean Clovers	-	250	500	200	
:	Sub Clover	WSM1325	Arrowleaf, Balansa, B	ladder, Gland, Purple and Persian Clovers	-	125	250	100	
:	Soy	CB1809	Soybean		-	500	-	500	
1	Mung Bean	CB1015	Mung bean, Cowpea	Shaw creeping vigna, Moth, Dune and Rice and Snake bean	-	500	-	500	
1	Mung Bean	CB1015	Sunn Hemp		-	250	-	250	
1	Lab Lab	CB1024	Pigeon Pea, Dolichos	Lablab, Hyacinth Bean	100	-	-	500	
1	Lab Lab	CB1024	Perennial Horse Grar	n	50	-	-	250	
	Siratro	CB756	Butterfly Pea, Atro, Pi	uero, Tropical Kudzu	* 50	-	-	* 200	
:	Siratro	CB756	Siratro, Velvet, Banar	a and Phasey Bean, Calopo, Glycine	* 25	-	-	* 100	
1	Peanut	NC92	Peanut and Groundn	ut	-	-	-	500	
1	Faba Bean	SRDI969	Acid Tolerant	Faba, Tick and Broad Beans	-	-	1000	500	
1	Field Pea	WSM4643	Acid Tolerant	Field Pea, Common, Bitter, Purple and Woolly Pod Vetch	-	-	1000	500	
1	Lentil	WSM4643	Z Acid Tolerant	Lentil	-	-	500	250	
1	Lupin	WU425	Narrow Leaf and Albu	Narrow Leaf and Albus Lupin		-	1000	500	
1	Lupin	WU425	Yellow, Slender, Pink, and Hybrid Serradella		-	-	500	200	
(Chickpea	CC1192	Desi, Garbanzo and F	Desi, Garbanzo and Kabuli Chickpeas		-	1000	500	
	Adzuki bean	5G1B	Adzuki bean		100	-	_	* 200	
		SU343	Birdsfoot trefoil				_	* 25	
	Biserrula	WSM1497	Biserrula				100	* 50	
		CB1717	Burgundy bean				-	* 100	
-	Centro	CB1923	Centro and Centurior	• •				* 200	
		CC283b						* 50	
	Common Bean	CC283D		Caucasian Clover, Kura Clover French or Common bean, Navy, Kidney, Dry, Lima beans and Black Turtle			_	* 250	
		CB3126	Desmanthus	our, nury, nurry, bry, Lina bears and black futte	* 25			* 100	
	Desmodium	CB3126	Desmodium		- 25	-	-	* 50	
		SU277			-	-	-		
-	Fenugreek Leucaena	CB3060	Fenugreek		* 50	-	-	*200	
				Leucaena Lotus pedunculatus, Lotus and Lotus Hirsutus		-	-		
	Greater Lotus Messina	CC829		בטנטא מויע בטנעא דוויאטנעא	-	* 125		* 25	
		SRDI554	Messina		-	. 125	-	+ 50	
	Stylo	CB1650	Caribbean stylo		-	-	-	* 50	
	Stylo	CB3481	Caatinga stylo		-	-	-	* 50	
							-		
	lagasaste	CC1502	Iree lucerne or Tagas	aste	-	-	-	* 25	
Bonc	Sulla Tagasaste d Genesis Rhizobium f nued: Product availabl			_	gasaste I <i>Genesis</i> 100g packet per Easy <i>Rhiz</i> ™ vial. Sold separately.		jasaste	jasaste	jasaste *25

Discontinued: Product available until current stock clears.

Seasonality Type 🔹 Pasture Inoculant 🔸 Summer Inoculant 🔹 Winter Inoculant 🔹 Specialised Inoculant 🕕 For application rates refer to technical data sheet Standard: 250g~ | Jumbo: 1.25kg~ | Mega: 2.5kg~ | Vial: 30ml



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Increasing microbial diversity boosts ecosystem productivity where each beneficial species, no matter how small, has an important role to play. NEM's biological agriculture system has been developed to enhance soil health, create resilient landscapes, improve crop and pasture performance and sustainable farming futures. Learn why we are so passionate about microbes and how they can benefit you – visit www.nem.com.au

EasyBond Genesis

EasyBond Genesis is compatible with EasyRhiz[™] Vial Customer Technical Support: Speak with our friendly support team if you need to seek specialist or product compatibility advice.



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