



PRODUCT INFO
& DATASHEET

BIOLOGICALLY CONTROLLED NITROGEN RELEASE

SICOFERT SL TURF 3-4 M

SICO SL 39 N 6-12 M

SICO SL 39 N SUPER 12-16 M

A unique and complete range of methylene urea formulations for a controlled nitrogen fertilisation

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SICO FERTILISERS
EVERY TIME THE *right* SOLUTION



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NEW OPPORTUNITIES ARE RISING ...

... an advanced methylene urea formulation technology !

... a product range with equivalent nitrogen sources but with different controlled release characteristics !

... your key for an individually designed nitrogen fertilisation management programme !

SICOFERT SL TURF 3-4 M

SICO SL 39 N 6-12 M

SICO SL 39 N SUPER 12-16 M

KEY BENEFITS

- ***Nitrogen release profiles matched to the specific nutritional demand.***
- ***Biologically controlled nitrogen release.***
- ***Predictable starter and controlled release effect.***
- ***Environmentally safe nitrogen fertilisation management.***
- ***Optimal utilisation of the applied nitrogen.***
- ***Safe to use.***



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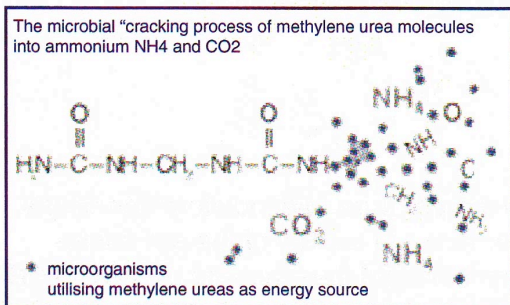
Sap International's new product range, consisting of controlled nitrogen release fertilisers, is based on a nitrogen source (methylene ureas) where the nitrogen is tied up in molecules of different sizes. Modern technology, utilising the sophisticated methylene urea condensation technique, allows to control the proportions of the various molecule sizes. With this, 3 products have been created, which have different nitrogen release characteristics, but all are based on the same basic nitrogen source.

* THE METHYLENE UREA TECHNOLOGY

TARGETED BIOLOGICALLY CONTROLLED NITROGEN RELEASE CHARACTERISTICS FOR A WIDE SPECTRUM OF CLIMATIC CONDITIONS. Methylene ureas offer a targeted biologically controlled nitrogen release that is well suited for a wide spectrum of climatic conditions.

It is considered a biologically controlled release, as:

- a/ the nitrogen is made available from the methylene urea molecules to the plant by microbial breakdown (microbial "cracking" process) and
- b/ the rate of release is governed by the length of the methylene urea molecule, with the shorter molecules releasing faster than the longer molecules.

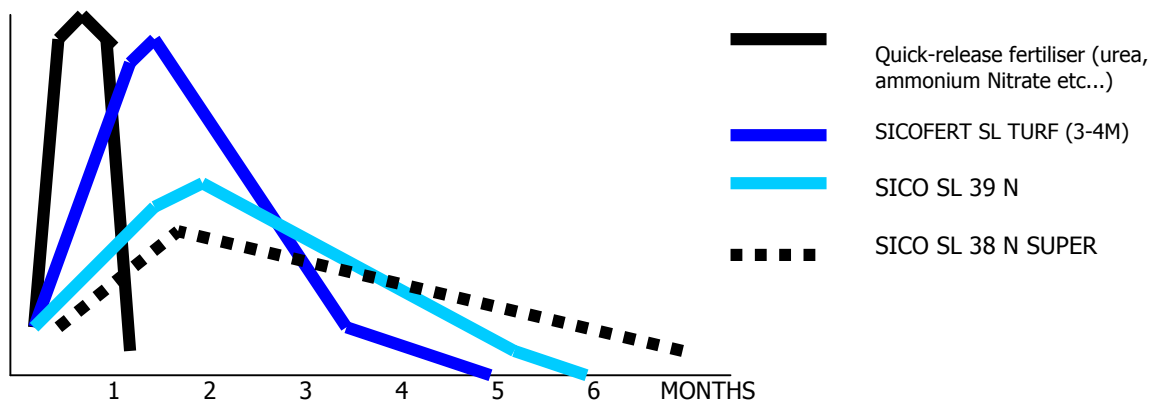


As the mineralisation of methylene ureas is a biological process, it is influenced by temperature and, to a limited extent, by humidity. These factors also govern the nutrient requirement. Consequently, nitrogen release from methylene urea matches nutritional needs of the plant.

The ability of modern technology to control the ratios of the various chain lengths of methylene urea molecules is the basis for an individually adjusted nitrogen release which is a typical and outstanding characteristic of the SICOFERT SL TURF – SICO SL 38N – SICO SL 38 SUPER product range.

* THE CHARACTERISTIC NITROGEN RELEASE PATTERNS OF: SICOFERT SL TURF – SICO SL 39 N – SICO SL 39 N SUPER

N-availability %



Conclusion:

SICOFERT SL TURF – SICO SL 39 N – SICO SL 39 N SUPER: Moderate initial availability and controlled released nutrition perfectly matched to plant requirements under different growth conditions. In contrast to quick-release fertilisers with excessive immediate N-availability – short duration.



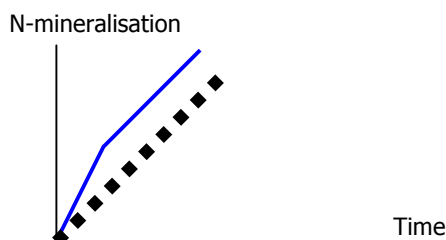
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DIFFERENT NITROGEN RELEASE – SAME BENEFITS

* GRANULAR SIZE

- No influence on controlled release performance

Methylene ureas (e.g. SICO SL 39 N) maintain their controlled release performance even as powder formulations in contrast to other slow release nitrogen sources such as IBDU; mechanical damage to SICOFERT SL TURF (3-4M), SICO SL 39 N or SICO SL 39 N SUPER just leads to an enhanced number of methylene urea particles.

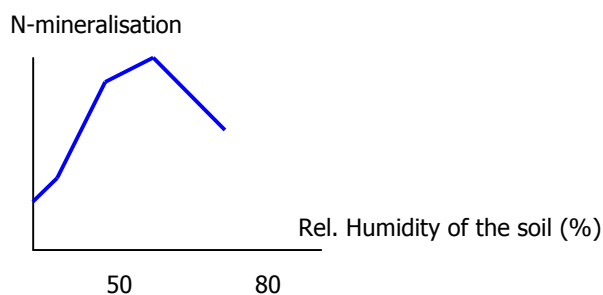
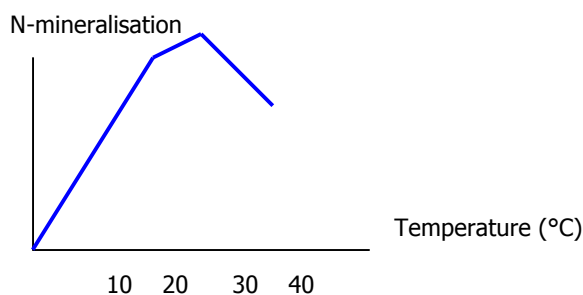


* TEMPERATURE / HUMIDITY

- Fine-tuning of the biologically controlled release

Soil temperature and moisture conditions determine the activity of the soil micro-organisms and thus the rate of SICOFERT SL TURF (3-4M), SICO SL 39 N or SICO SL 39 N SUPER release.

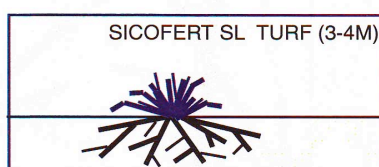
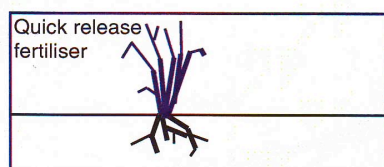
As a result, the biologically controlled nitrogen release will coincide with the actual nitrogen demand of the plant.



The nitrogen release can be fine tuned even more to respond to specific conditions of use by selecting the individually required release feature within the available product range; example: preference of SICOFERT SL TURF (3-4M) for turf nutrition in periods of low temperatures.

* MORE ROOTH GROWTH

- reduced amount of clippings
- improved sward density and shear strength



Neither SICOFERT SL TURF (3-4M) nor SICO SL 39 N nor SICO SL 39 N SUPER produce flush of growth which usually leads to excessive amounts of clipping.

* ENVIRONMENTAL BENEFITS

- nutrition without risk

SICOFERT SL TURF (3-4M), SICO SL 39 N and SICO SL 39 N SUPER are non burning due to their special nitrogen source; there is no leaching, no ammonia volatilisation. SICOFERT SL TURF (3-4M) has a history of non-burning performance even when the turf is under heat stress.

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THREE DIFFERENT NITROGEN RELEASE CHARACTERISTICS FOR YOUR INDIVIDUAL MANAGEMENT PROGRAMME AND ALL CLIMATIC CONDITIONS.



quick release N-fertiliser



SICOFERT SL TURF 3-4 M



SICO SL 39 N 6-12M



SICO SL 39 N SUPER 12-16M

TIME →

That means:

- SICO SL 39 N SUPER 12-16 M:** longlasting and predictable nitrogen release over a period up to 12-16 months
- SICO SL 39 N 6-12 M:** uniform and moderate nitrogen release over a period up to 6-12 months
- SICOFERT SL TURF 3-4 M:** immediate and initial response and sustained nitrogen release over a period up to 3-4 months

A guide to **SICOFERT SL TURF 3-4M**, **SICO SL 39 N SUPER 12-16 M** and **SICO SL 39 N 6-12M** application fields:

	Sico SL 39-40 N	SICOFERT SL TURF 1	SICOFERT SL TURF 2	SICOFERT SL TURF 3	SICOFERT SL TURF 4	SICO SL 39 N Super	SICO SL 39 N	SICO SL Special
SPORTS TURF								
- high maintenance	*	*	*	*	*			
- moderate maintenance							*	
- low maintenance					*	*	*	
GOLF COURSES								
- greens	*	*	*	*			*	
- fairways					*	*	*	
AMENITY AREAS					*	*	*	
DOMESTIC LAWNS		*			*	*	*	
LAND RECLAMATIONS						*	*	*
POTTING COMPOSTS						*	*	*
VEGETABLES							*	*
FRUIT CROPS						*	*	*
ORNAMENTALS						*	*	*

SICO SL 39-40 N (2-6M) is recommended for cool season grasses.

SICO SL 39 N SUPER (12-16M) is recommended for warm season grasses (St. Augustine, Bermuda, Centipede and Zoysia).

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**The product range which creates positive results
in every respect !**

*** ECONOMIC BENEFITS**

- Highly concentrates – highly efficient
- Fewer applications – labour-saving benefits
- No flushes of growth – less mowing frequencies
- No nitrogen losses
- Different release patterns for efficient use under various climatic conditions

*** CROP-SPECIFIC BENEFITS**

- Non-burning – low salt index – high crop safety
- Continuous and long-lasting N-supply
- High sward density in turf
- Satisfactory aesthetic appearance of turf
- No thatch formation
- Improved root development
- Improved plant health – increased drought tolerance
- N-release adapted to the crop's requirements

*** ENVIRONMENTAL BENEFITS**

- Enhanced biological activity of the soil
- No leaching, no ammonia volatilisation
- Environmentally safe

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