

Higher flexibility and safety  
increase your yield level.



# STABUR®

Stabilized urea fertilizer – only for experts  
Contains Limus® Orange

- ✓ Patented urease inhibitor with two active ingredients: NBPT and NPPT
- ✓ Reduces ammonia losses up to 98%
- ✓ Increased yield level owing to more nitrogen availability for the plant
- ✓ Higher flexibility and safety during fertilizer application
- ✓ Manufacturer's warranty up to 12 months of shelf life

Enthält Limus® –  
Harnstoffschutz für eine  
optimale Pflanzenernährung

**BASF**  
We create chemistry

# Maximum nitrogen efficiency through STABUR®

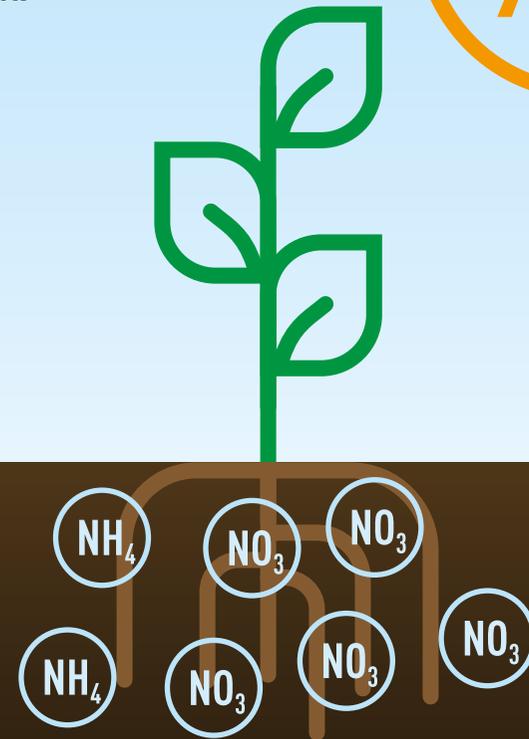
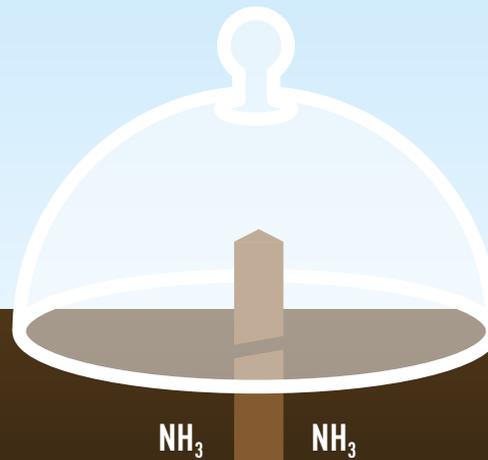
The combination of two active ingredients (NBPT and NPPT) makes STABUR® and especially effective compared to conventional urease inhibitors. They lower ammonium emissions ensure better nitrogen availability from urea for the plants so that each pound of nitrogen is used as efficiently as possible. The two active ingredients NBPT and NPPT block considerably more urease enzymes in the soil that are responsible for converting carbamide nitrogen to ammonium nitrogen. The hydrolysis process causes the pH to increase and hence gaseous ammonium emissions.

This process is reduced with STABUR®, making more nitrogen available for plant nutrition in the form of ammonium and nitrate.

**With it, you not only protect your wallet but also actively protect the environment.**

Reduces losses  
up to  
**98%**

Urea fertilizer  
**STABUR®**  
Contains Limus® Orange



carbamide  
nitrogen  
CO(NH<sub>2</sub>)<sub>2</sub>

Hydrolysis through urease enzymes  
STABUR® (contains Limus® Orange) blocks the activity of the urease enzymes and inhibits the conversion.

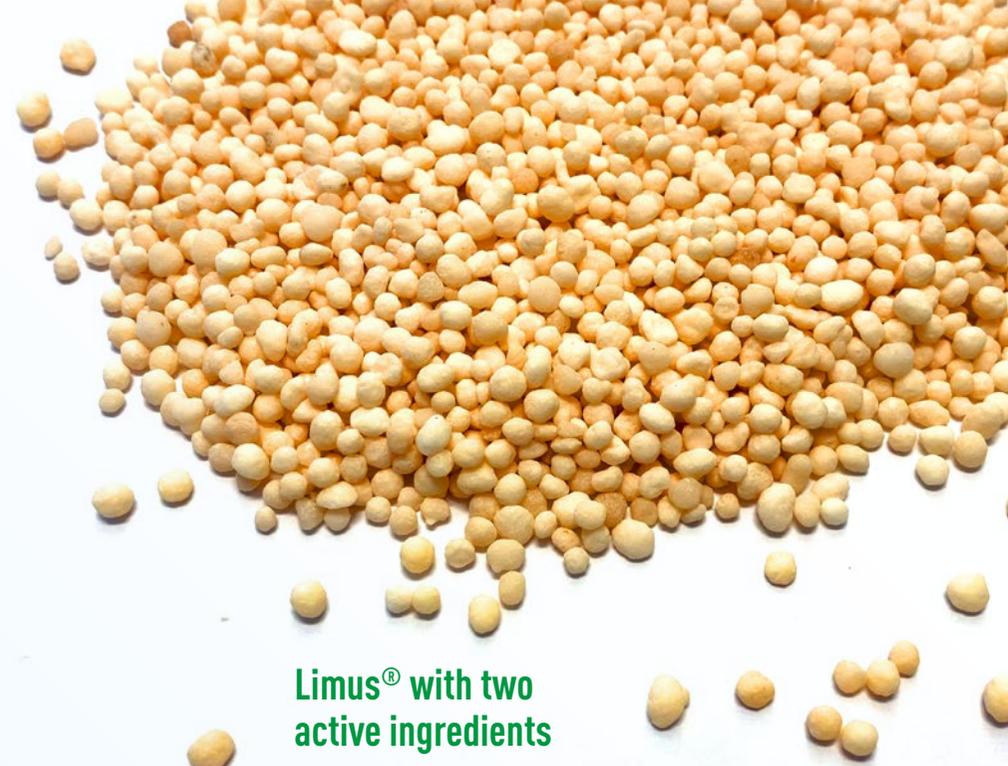
ammonium  
nitrogen  
NH<sub>4</sub>

Plant-available nitrogen

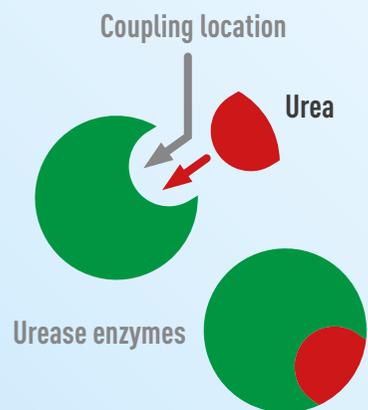
nitrate  
nitrogen  
NO<sub>3</sub>

# Quality pays off

To meet the high quality requirements of our customers, we have conducted STABUR® spreading tests with spreading technology manufacturers Amazone and Rauch using various urea origins. Therefore, you can easily and exactly set your spreader as usual according to the spreading table. To ensure an optimal production basis for STABUR®, we use exclusively selected urea origins.

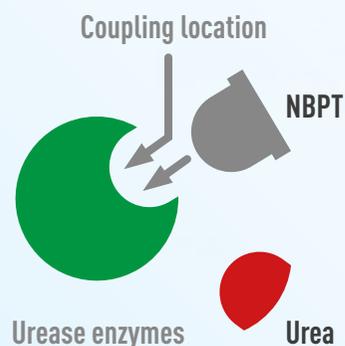


## Mechanism without urease inhibitor



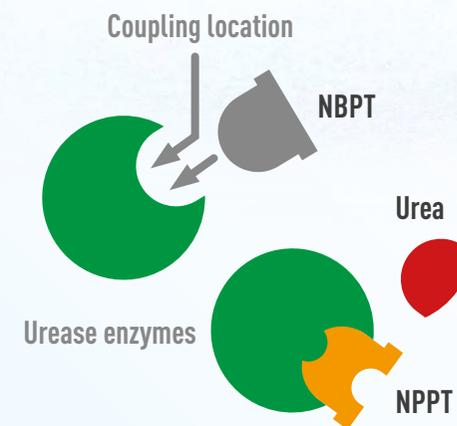
Urease enzymes have a coupling location for urea and they hydrolyze the urea to ammonia and carbon dioxide.

## Urease inhibitor with one active ingredient



Urease inhibitors occupy this coupling location so the urea cannot be transformed. However, there are many different urease enzymes in the soil that cannot be blocked by one active ingredient alone.

## Limus® with two active ingredients



Various urease enzymes need different urease inhibitors. Thus, Limus® with its two NBPT and NPPT active ingredients is significantly more effective than a product with only one active ingredient.

# Additional yields through STABUR®

The reduced nitrogen losses through Limus® Orange increase the nitrogen absorption possibilities of plants and improve the yield compared to urea without urease inhibitor. Tests conducted by BASF SE compared STABUR® with urea, conventionally stabilized urea and calcium ammonium nitrate (CAN). The test results illustrate the positive yield performance of STABUR® compared to other nitrogen fertilizers.

## More flexible fertilizer use with STABUR®

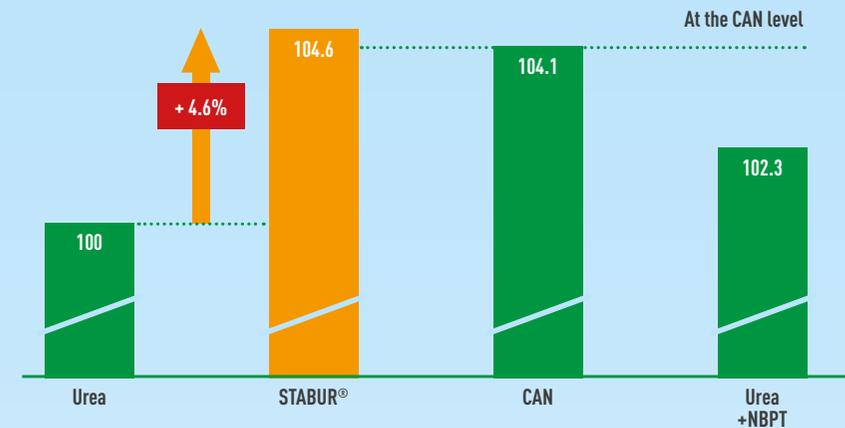
The use of STABUR® significantly increases the time window for the optimal application compared with other fertilizers containing urea. Especially in long dry periods or high temperatures, you lower the risks of ammonia losses. With STABUR®, the optimal time of application does not change and is similar to the dates of the urea application.

## Instructions for proper use

For best results please consider local application recommendations as well as the results of the soil and plant analysis. Application limits as set forth in national regulations shall not be exceeded. Read the safety data sheet and material data sheet as well as the storage and transportation instructions for STABUR®.

**Shelf life: Guaranteed for up to 12 months according to the sales contract.**

**For more information, visit [www.stabur.de](http://www.stabur.de)**



Tests in Germany 2015–2017, cereal, n=7

