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Selko® is a brand of Trouw Nutrition, a Nutreco company.

Trouw Nutrition is the global leader in innovative feed specialities, premixes and technical services for animal nutrition. Quality, innovation and sustainability are the guiding principles behind everything we do – from research and raw material procurement, to the delivery of cutting-edge products and services for agriculture.

Trouw Nutrition GB  
Blenheim House  
Blenheim Road  
Ashbourne  
Derbyshire  
DE6 1HA

T: 01335 341102  
F: 01335 341171  
E: [technical.gb@nutreco.com](mailto:technical.gb@nutreco.com)  
[trouwnutrition.co.uk](http://trouwnutrition.co.uk)

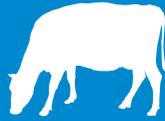


## Protect valuable feed with Selko-TMR



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# Protect valuable feed with Selko-TMR



## The problem of spoilage in TMR

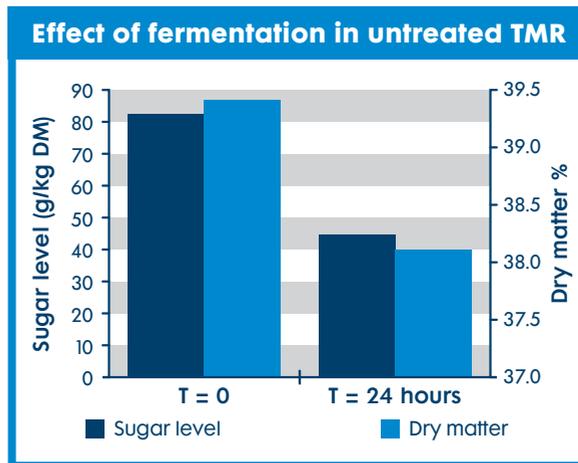
The moment that silage is exposed to the air and combined with further ingredients to compose a Total Mixed Ration (TMR) aerobic spoilage begins.

Feed that has been compromised by the effects of yeast proliferation and aerobic spoilage has measurably reduced nutritional value and an odour that leads to reduced palatability and an associated reduction in feed intakes.

- Yeasts will metabolise lactic acid, raising pH and allowing growth of spoilage microorganisms and aerobic spoilage to occur
- Aerobic spoilage can cause substantial nutrient losses when silage is combined with a nutrient dense mix

Research has shown that feed subjected to aerobic spoilage for 24 hours loses 48% of the sugars in the dry matter, which results in the overall dry matter content of the TMR decreasing by 1.3%.

When temperatures exceed 20°C, dry matter losses due to fermentation can be significant. An average of 0.25% of dry matter is lost per degree increase in temperature. This can lead to a loss of up to 5% of dry matter on a single warm summer's day!



Source: Selko Laboratory 2010

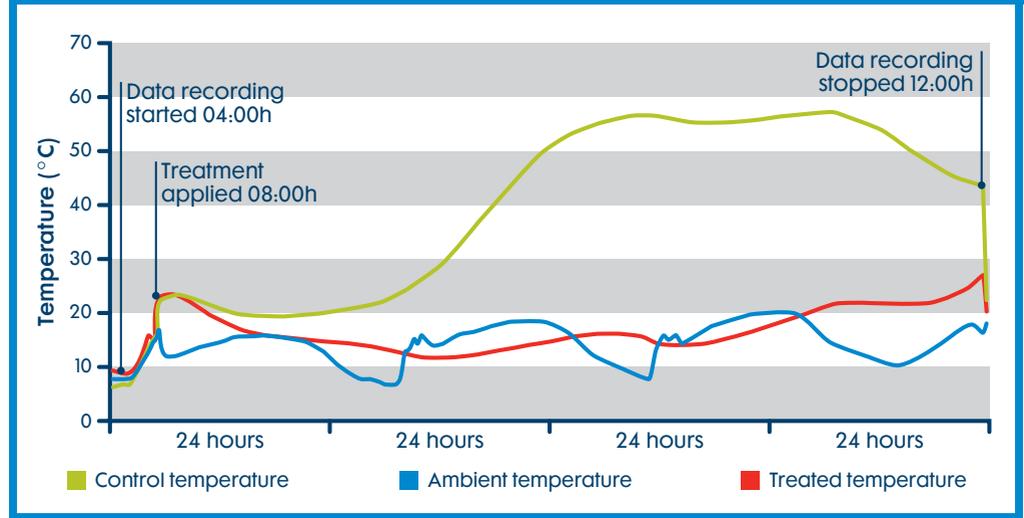
## A solution from Trouw Nutrition

Selko-TMR is a non-corrosive liquid product that is highly effective at preserving total mixed rations, processed feeds and silages by controlling aerobic spoilage, and therefore temperature, caused by microbial activity.

Controlling aerobic spoilage allows the nutritive value of the feed to be maintained which supports palatability and feed intake patterns.

Selko-TMR has been shown to prevent substantial increases in the temperature of TMR (see chart opposite).

## TMR temperature development



Source: Trouw Nutrition GB 2010

## Selko-TMR – the product

Selko-TMR contains a synergistic blend of buffered organic acids. The formulation focuses on inhibiting aerobic spoilage of TMR, processed feeds, feed materials and silage by helping to control the growth of spoilage microorganisms.

Stabilising the ration preserves the nutritive value of the feed whilst also working to secure long term palatability and feed intakes. All of these aspects help to support animal health and performance.

## Selko-TMR – application

Application rates are influenced by a variety of factors. It is important that these factors are taken into consideration when determining suitable application rates:

- Ambient temperature and humidity
- Moisture levels
- Feed material microbial profile

Typical application rates to achieve sufficient preservation are 1.0–2.0kg Selko-TMR per 1000kg of feed. A mixing time of approximately 5-7 minutes post product addition ensures a uniform mix.

## Selko-TMR – packaging information

Selko-TMR is a non-corrosive liquid and is available in 1000kg, 225kg and 25kg pack sizes. Product should be stored in original packaging at above -10°C.