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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 nutritional 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.

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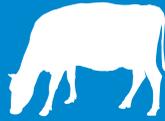


## Protect valuable feed with Selko-TMR



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# Protect valuable feed with Selko-TMR



## The problem of spoilage in TMR

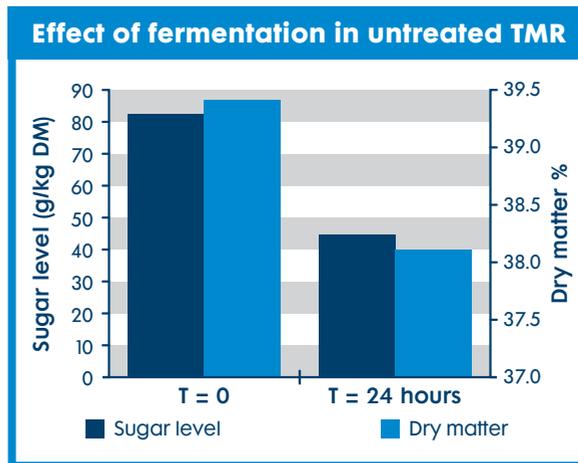
The moment that silage is exposed to the air and combined with further ingredients to compose a Total Mixed Ration (TMR) fermentation begins.

- Fermentation is the chemical breakdown of a substance by yeasts, bacteria and microorganisms.
- Yeasts rapidly multiply utilising energy and protein in the feed which can significantly reduce the nutrient density of the diet.

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

Research has shown that feed subjected to fermentation 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

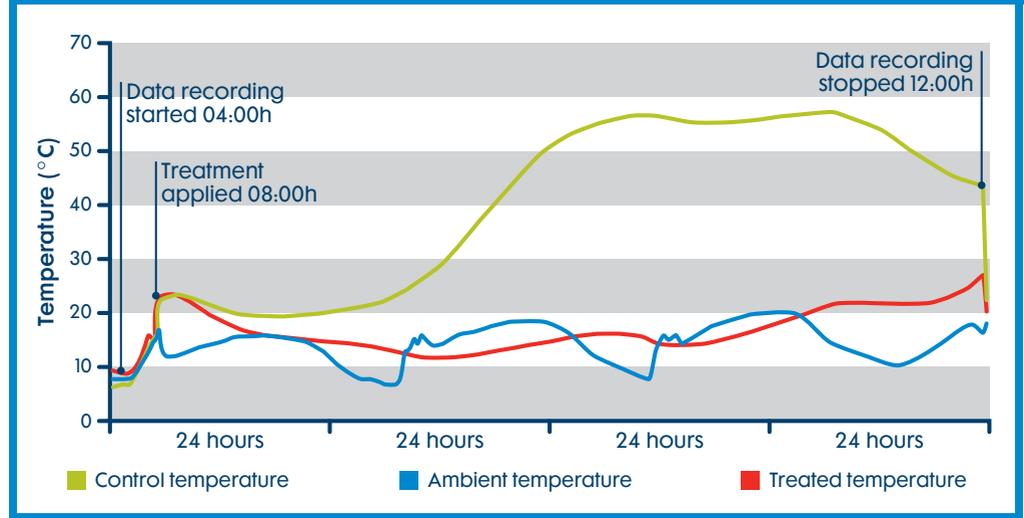
## A solution from Trouw Nutrition

Selko-TMR is a non-corrosive liquid product that is highly effective at preserving total mixed rations, processed feeds and silages by controlling aerobic fermentation, and therefore temperature, caused by the rapid multiplication of various yeasts.

Controlling fermentation 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 fermentation of TMR, processed feeds and silage by helping to control the growth of spoilage microorganisms, specifically yeasts.

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
- Overall raw material quality

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.