



# ProMyr™ TMR

Keep your TMR cool and fresh

## Benefits with ProMyr™ TMR

- Prevents (over)heating of the TMR
- Less undesired fermentation
- Improved palatability, increased feed intake

# Keep your TMR cool for improved results!

Total Mixed Ration (TMR) is a blend of different feed materials such as silage, grain, concentrate, by-products and minerals. The moment the mix is exposed to oxygen aerobic spoilage begins. Blending a TMR provides the ideal growing conditions for unwanted microorganisms, such as molds and yeasts, including lactate assimilating yeasts. This might increase the risk of heating and spoilage of the feed. TMR that has been affected by unwanted fermentation has measurably reduced nutritional value which can lead to decreased palatability and associated reduction in feed intake.

## What causes the ration to heat?

- Addition of easily accessible nutrients
- Exposure to oxygen
- Recontamination of previous feed mixed in the feed mixer

## Freshness is key

With fresh TMR it is ensured that cows sustain a high dry matter intake with the perfect mix of nutrients in every bite.

It is common knowledge that feed consumption declines as the temperature of the feed rises. Rising temperatures stimulate microorganisms, yeasts and molds to grow. This results in less palatable feed, which leads to lower feed intake and less milk production. As cows are very keen on detecting rising temperatures and unwanted fermentation products, it is important that the TMR is fresh during the total feeding period.

## Why is TMR management important?

- Improved rumen fermentation. Cows have access to a complete and balanced ration throughout the day.
- Increased dry matter intake. Higher feed utilization and less residual feed left.
- Enhanced milk production. A healthy cow with a functioning rumen, free of digestive disorders, and maximal feed intake will produce more milk.





# Freshness is key

ProMyr™ TMR helps stabilize the ration's nutritive value whilst working to maintain palatability and feed intake. The products prevent heating, unwanted fermentation and microbial activity in the TMR. The cows will not sort the feed to look for the best bits as much, which results in less waste and easier management for you.



## ProMyr™ TMR: proven in practice

Perstorp has done extensive research to find the most efficient compositions for ProMyr™ TMR by cooperating with the Swedish University of Agricultural Sciences in Sweden, Sao Paulo University in Brazil and the Parma University in Italy.

### MILK YIELD AND QUALITY\*

	Control	ProMyr™ TMR Flexible	ProMyr™ TMR Solid
Milk yield (kg/day)	29,6	30	30,7
3,5% FCM**	30,3	31,3	32,2
Fat (kg/day)	3,65	3,73	3,84
Protein (kg/day)	3,28	3,30	3,29
Lactose (kg/day)	4,93	4,97	4,95

Table 1: Stability measured in hours until a temperature rise of 3°C

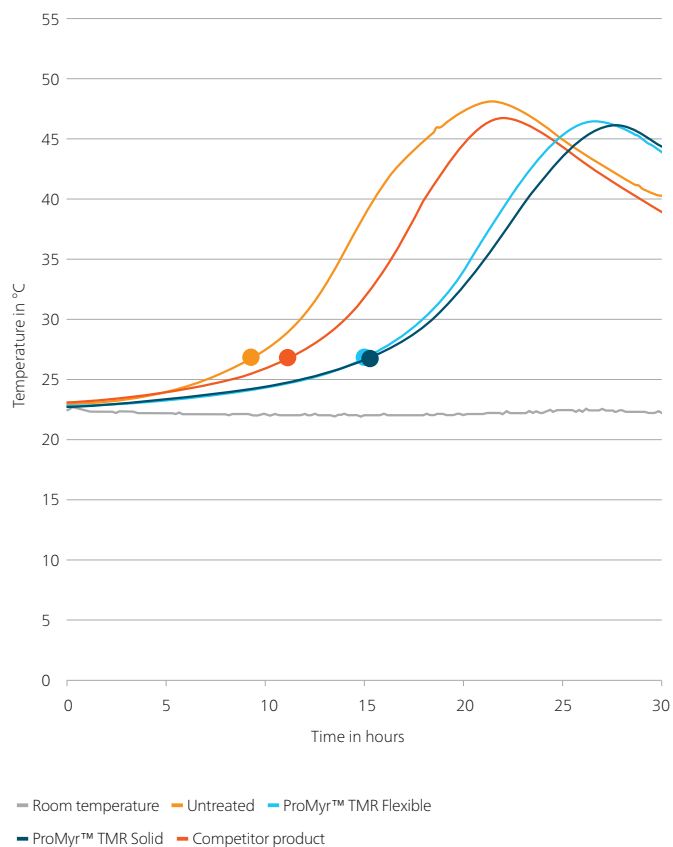
\* The table below shows the main results of the trial in Brazil.

\*\* FCM = Fat corrected milk at 3,5%

## Why specialized TMR products?

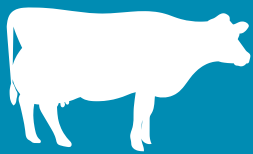
ProMyr™ TMR Solid and ProMyr™ TMR Flexible are synergistic blends of salts and/or organic acids. Single acids often fail to control a wide variety of bacteria, yeasts and molds. The formulations focus on inhibiting the potential for aerobic spoilage of the TMR by helping to control the growth of unwanted microorganisms. An increase of temperature compared to the ambient temperature indicates heating of the feed. With ProMyr™ TMR Solid (dry) and ProMyr™ TMR Flexible (liquid), the TMR takes longer before temperature rises than competitor products.

### STABILITY OF TMR – LABORATORY STUDY



# Improve your profit

How much can your profitability be improved?



3 liter ProMyr™/  
ton silage



## MILK PRODUCTION

A cow in lactating phase gives between 15 up to 60 liters milk a day. The average is 25 liters.

## VALUE WHEN USING PROMYR™

Gives you 4% more milk production\* per cow. The average will then be 26 liters. Application of ProMyr™ also reduces feed losses.\*\*

## IMPROVEMENT

ProMyr™ can improve milk yield with 31 500 liters per year in a herd of 100 dairy cows.

Contact your sales representative for dosage and advice in your situation.

Our sales representative can inform you about the specific improvements on your farm.

\* Milk production +1kg/day, +0,2% fat, +0,1% protein

\*\* Decreased DM-losses, decreased feed waste and decreased raw protein losses.



# Devoted to your success

## **Specialist**

Perstorp Animal Nutrition is a global specialist in acid-based solutions with almost 60 years of experience. We know the importance of gut health and feed preservation for the livestock industry. Therefore, we have focused our skills, knowledge and resources on finding new ways to improve gut health and preservation. Thanks to this dedication, we are the first in developing next generation solutions that exceed your expectations.

## **Swedish multinational**

As Perstorp Animal Nutrition, we belong to the Swedish multinational Perstorp Group – a basic producer of organic acids such as propionic acid, formic acid and butyric acid. As a part of the Perstorp Group, we can take advantage of an extensive amount of knowledge accumulated since 1881, joint R&D facilities and our own production facilities in Europe, North America and Asia. As Perstorp Animal Nutrition we operate independently, flexibly and close to our markets.

## **Agricultural lifeline**

Our highly knowledgeable and motivated team has an agricultural lifeline. Being in close contact with farmers and the feed industry drives our dedication in adding value to your business. We challenge ourselves constantly to enhance gut health and preservation for better performance, feed efficiency and daily weight gain: for your business.

## **Perstorp Animal Nutrition:**

Dedicated specialist in gut health and preservation. Devoted to success