

# TMR Stabilizer

70805-172—50 lb. bag



TMR Stabilizer is a unique blend of four organic acids formulated to control fungal & secondary microbial growth and extend the bunk life of TMRs. TMR Stabilizer will reduce heating and nutrient degradation in TMRs by retarding mold and yeast growth. Use TMR Stabilizer to minimize reduced feed intake during summer weather by maintaining cooler, fresher feed.

## FEATURES:

- Proven blend of acids & antioxidants enhances bunk life by stabilizing the pH levels in forage
- Product is in dry form for accurate distribution in TMR mixer
- Buffered to help prevent metal corrosion
- Easy to use and does not require special storage
- Packaged in lined bag to ensure product quality

## BENEFITS:

- Maintains TMR nutrient density and ensures more nutrition delivered with every bite
- Helps to prevent TMR heating, keeping feed fresher and more palatable
- Maintains feed palatability for maximum intake and animal performance
- Application for both dairy and beef mixes

Numerous conditions can create rapid TMR heating and nutrient degradation. As stress factors that the TMR is exposed to increase, the required treatment rate will also need to increase.

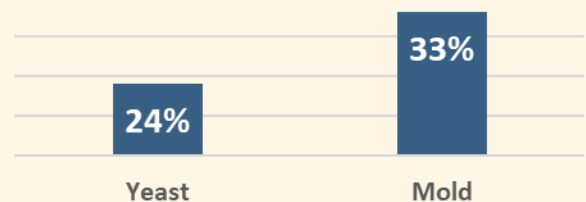
**TMR Stabilizer starts working immediately to retard the growth of mold and yeast, keeping feed fresher!**

## TMR Stabilizer - Proven Results!

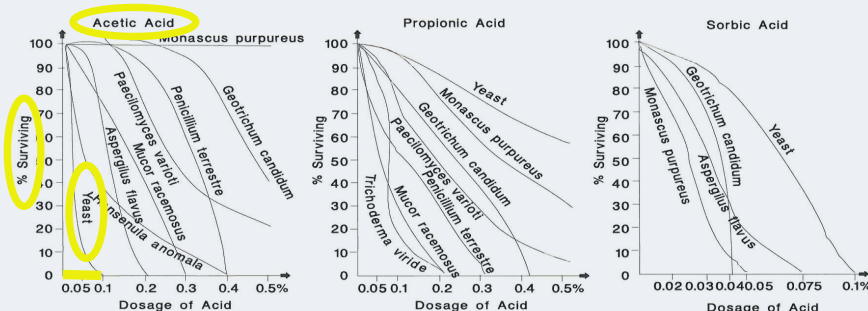
TMR Stabilizer has been statistically proven to maintain temperature and freshness of TMRs compared to untreated feed.

*Summer 2018 Field Data: 16 Commercial Farms in Minnesota*

### Reduction in Mold & Yeast Counts



## Efficacy of Organic Acid to Inhibit Growth of Molds



From: Pelhate, J. 1973. Stabilisation de la mycoflore de maïs-grains Humides ensilés. Ann. Tech. Agric. 22:647-661.

Organic acids act as effective preservatives and work against multiple spoilage organisms.

- Sodium Diacetate
- Propionic Acid
- Sorbic Acid
- Benzoic Acid
- Ethoxyquin

### Other Ingredients:

Hydrated Sodium Calcium Aluminosilicate, Vegetable Oil, Sodium Hydroxide, Calcium Hydroxide, Silicon Dioxide, Propylparaben, Methylparaben and BHA.



740 Bowman Street, Stewart, MN  
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## Feeding Directions:

- Add TMR Stabilizer to TMR at the time of mixing
- Mix into dairy or beef TMRs at the rate of 2 – 3 lbs. per ton of TMR
- Increase to 4 – 6 lbs/ton in severe hot weather or when feedstuffs are already experiencing microbial or fungal growth
- Increase application rates if the following conditions exist:
  - Heavy mold, yeast, & mycotoxin load in feeds being mixed
  - Slow silage removal rates, (feeds and forages exposed to oxygen for extended period during feed-out)
- General recommendations:
  - Introduce 2 lbs of TMR Stabilizer/ton of TMR when the Temperature Humidity Index (THI) exceeds 68 (see THI chart below)
  - Add 1 additional lb of TMR Stabilizer/ton of TMR for every 5 point increase in THI

## Storage:

- Store in a dry, low humidity location (below 50% relative humidity)

Temperature-Humidity Index (THI)

Temp °F	Humidity %																		
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
72	64	65	65	65	66	66	67	67	67	68	68	69	69	69	70	70	70	71	71
74	65	66	66	67	67	67	68	68	69	69	70	70	70	71	71	72	72	73	73
76	66	67	67	68	68	69	69	70	70	71	71	72	72	73	73	74	74	75	75
78	67	68	68	69	69	70	70	71	71	72	72	73	73	74	74	75	75	76	76
80	68	69	69	70	70	71	72	72	73	74	75	75	76	76	77	78	78	79	79
82	69	69	70	70	71	72	73	73	74	75	75	76	77	77	78	79	79	80	80
84	70	70	71	72	73	73	74	75	75	76	77	78	78	79	80	80	81	82	83
86	71	71	72	73	74	74	75	76	77	78	78	79	80	81	81	82	83	84	84
88	72	72	73	74	75	76	76	77	78	79	80	81	81	82	83	84	85	86	86
90	72	73	74	75	76	77	78	79	79	80	81	82	83	84	85	86	86	87	88
92	73	74	75	76	77	78	79	80	81	82	83	84	85	85	86	87	88	89	90
94	74	75	76	77	78	79	80	81	82	83	84	86	86	87	88	89	90	91	92
96	75	76	77	78	79	80	81	82	83	85	86	87	88	89	90	91	92	93	94
98	76	77	78	80	80	82	83	83	85	86	87	88	89	90	91	92	93	94	95
100	77	78	79	81	82	83	84	85	86	87	88	90	91	92	93	94	95	96	98
102	78	79	80	82	83	84	85	86	87	89	90	91	92	94	95	96	97	98	100
104	79	80	81	83	84	85	86	88	89	90	91	93	94	95	96	98	99	100	101
106	80	81	82	84	85	87	88	89	90	91	93	94	95	97	98	99	101	102	103
108	81	82	83	85	86	88	89	90	92	93	94	96	97	98	100	101	103	104	105
110	81	83	84	86	87	89	90	91	93	95	96	97	99	100	101	103	104	106	107

Stress Threshold Respiration rate exceeds 60 BPM. Rectal Temperature exceeds 38.5°C (101.3°F)

Moderate-Severe Threshold Respiration rate exceeds 85 BPM. Rectal Temperature exceeds 40°C (104°F)

Mild-Moderate Threshold Respiration rate exceeds 75 BPM. Rectal Temperature exceeds 39°C (102°F)

Severe Threshold Respiration rate exceeds 120-140 BPM. Rectal Temperature exceeds 41°C (106°F)



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