

JakMatGeocell

The ground stabilisation mat for
high pressure animal traffic areas



CASE STUDY – PAUL & DONNA HINTON'S FARM 07-06-2010

FARM OWNER: PAUL & DONNA HINTON
CONTRACTOR; JASON TEAGUE CONTRACTING LTD

Project

Dairy race stabilisation with **JakMatGeocell**

Background

The Hinton's have a 103 hectare approximately 10 kilometres west of Morrinsville on which they run 320 cows. They had two particular issues on their farm for considering the JakMatGeocell product system. One issue was the continual bogging up of their central race junction where the race exits the paddocks and enters the feed pad and milking shed (150 square metres in left photo below). The second issue was on the standing area on entry into the herring bone milking shed where pot holes and a ditch had formed at the meeting point of the race with the concrete pad (50 square meters in photo on right below). The laying system that Paul and Donna opted for was to use crushed lime, as they had had experience using it previously, preferring it for its sympathetic nature towards the cow's hooves. The basic problem had been keeping it in place and preventing the old chip aggregate from migrating to the surface and causing the lameness. The laying was completed in February 2010.



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Construction Steps

1. Jason Teague Contracting Ltd completed the first stage surface preparation with laser levelling allowing for drainage fall and the topping layers of crushed lime bedding (25mm), **JakMatGeocell** (43mm to be filled) and topping (25 -50mm) that was to follow.



2. The total 200 square metres of **JakMatGeocell** was laid by Paul, Donna and daughter, three farm employees and toddler. The cells were then filled with the crushed lime and roll compacted with the rubber wheels tractor (right hand photo). A further 20 -50mm of crushed lime was spread over the surface and also compacted.



3. There is a video clip of this case study available for viewing on the JakMat website (www.jakmat.co.nz) or alternatively you can view on you tube (www.youtube.com/jakmatnz).



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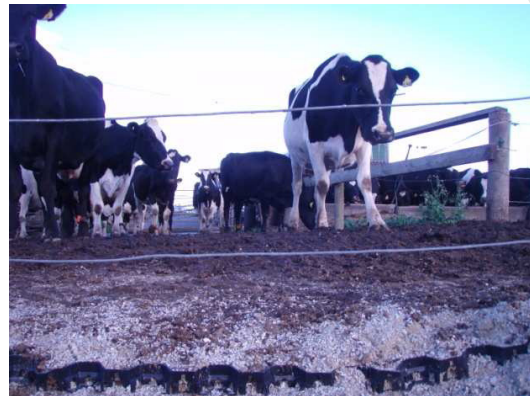
4. The complete laying process took a total of 5 hours and the herd walked across the completed surface at 3.30pm on that day.



Summary Outcome

The **JakMatGeocell** has now been down on Paul and Donna Hinton's race for a little over 4 months and the following the observations were made by Paul Hinton.

- "I have not had a lame cow in the 4 months since the JakMat has gone down I would normally had 3 or 4 over that time.
- "We have just had two days of heavy rain and the whole area is standing up a lot better than it use too".
- "At this stage we are very happy"



The function of this case study format is to circulate information to those involved in the industry and to encourage people to share opinions and ideas and assist others. Jakaar Industries Ltd is not actively involved in the laying of geocell product and does not have expertise in this area. We are plastic manufacturers involved in designing plastic products to perform highly specific functions. The information in this sheet is to the best of our knowledge true and accurate and all instructions, recommendations and suggestions are made without guarantee. The product should be stored and handled observing good industrial work practice guidelines and regulations.

