

The Benefits of Using Temporary Tape at Road Work Sites



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Confusion



And more challenges

Video removed

More confusion



More...



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And more...



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And more...



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And more...



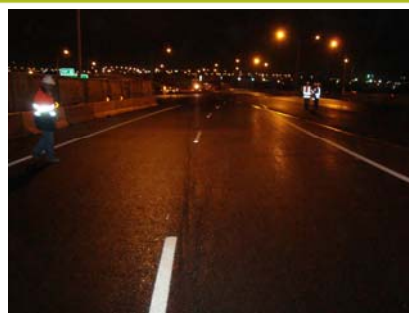
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Even down south



And at night



Issues for the Auckland Motorways

Removal of old linemarkings

- Safety can be compromised due to ghost markings
- Cost of removal
- Time taken and available to remove and reinstate
- Impact on surfacing life and condition through multiple changes to markings
- Ability of the surfacing to withstand the removal process

Number of sites on the motorway with prolonged road works

- Motorists no longer appear to respect road work sites

Options to consider

- Removable tape of Contrasting colour and contrasting line type
- Textured black out (currently being trialled with varying degrees of success)
- Wider milling / blasting - disguise the location at old lines, but can take longer and cost more
- At the end of each project a new seal is important so no superseded markings are left
- Surfacing Management Strategy - cannot allow pavement life to be extended due to upcoming road work as its brittleness can limit the ability to remove the markings. The use of a tape may mean that there is less chance of ghost markings being left following completion of works and hence there is no need to delay a programmed reseal (dependant on the nature of the upcoming capital project).

3 Key Points

1. Issues / current Situation for the Auckland Network
2. How could we improve delineation hence safety
3. Benefits / Value for money

Proposed System: Belgium



France



Germany



Germany



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Germany



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Sweden



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Application and removal



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Benefits

- Clear temporary markings should be safer
- Less closures to be implemented on the network (less time to remove old markings)
- Less damage to the pavement through removal of markings
- No ghost markings being present
- A reasonable amount of savings for the projects, as
 - less time needed to put down the tape and remove it in the end, and
 - no need to remove existing markings (cost and time saving)
 - no need to reseal early, or over extend life of pavement due to upcoming road works

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Where from here?

- Identify a suitable contrasting colour usable in various lighting conditions
- Address the issue of our existing practice of using yellow to denote no overtaking when internationally a solid white line denotes the same thing, so that a contrasting colour to the white can be used for temporary markings
- Consider the timeframe and cost required to eliminate existing yellow markings
- Identify any legislation that needs updating to reflect the changes
- Develop guidelines for use
- Develop media communications to advise of the changes
- Consider a trial site; evaluate and monitor
- Nationwide adoption of new policy for temporary line markings

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Summary

- Present practice leaves temporary markings that can be confusing and hence causing safety hazards
- The repeated removal and application of line markings can surely damage the pavement integrity thus reducing the lifetime of the pavement
- Considerable time, and hence cost, and traffic disruption is involved in the repeated marking and removal of line markings
- European countries are successfully using specialised removable tape
- There is no reason that benefits similar to the ones mentioned above cannot be achieved in New Zealand
- Further investigation, with the view to implementing a trial, should be progressed to confirm the suitability of adopting this practice of using a contrasting removable tape

Proposed system



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