

The (Dark) Art of Achieving Successful Outcomes with HRA Pavements

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ideas taking shape

HISTORY LESSON





Source: IAT Yearbook 2016. Thanks to North East and Cumbria

Branch!

2015- Big Advances in all machinesexcept one!!



2015.



The Machine.



Under the Bonnet-so to speak!



www.instituteofasphalt.org

The Material. Good



The Material. Bad

- Unforgiving to errors in manufacture and laying
- Very weather/season dependent
- Noisy
- Very difficult to lay on restricted sites
 - Eg. junctions, low radius roundabouts, rural roads below 8m in width (even with road closures)
- Road Closures required more often than not to lay due to width of chipper
- Remember that in contra-flows the loader has to travel with live traffic!

Common Issues

- Joint Formation
- Compaction Control
- Tack Coat
- Workmanship
- Season/Weather
- Mix Stability
- Sources of Suitable sands
- Storage of Sands
- Binder Content optimisation

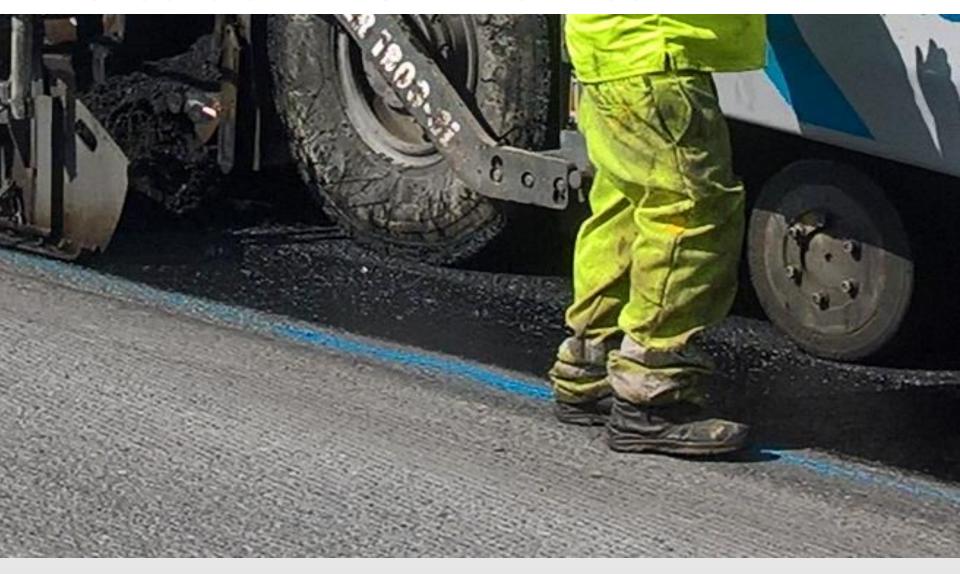
Solutions

- Better training of site-management and workforce.
- Realisation of limitation of application
- Co-ordinated approach to laying in the correct season to aid planning

HOW TO ACHIEVE A PERFECT PAVEMENT



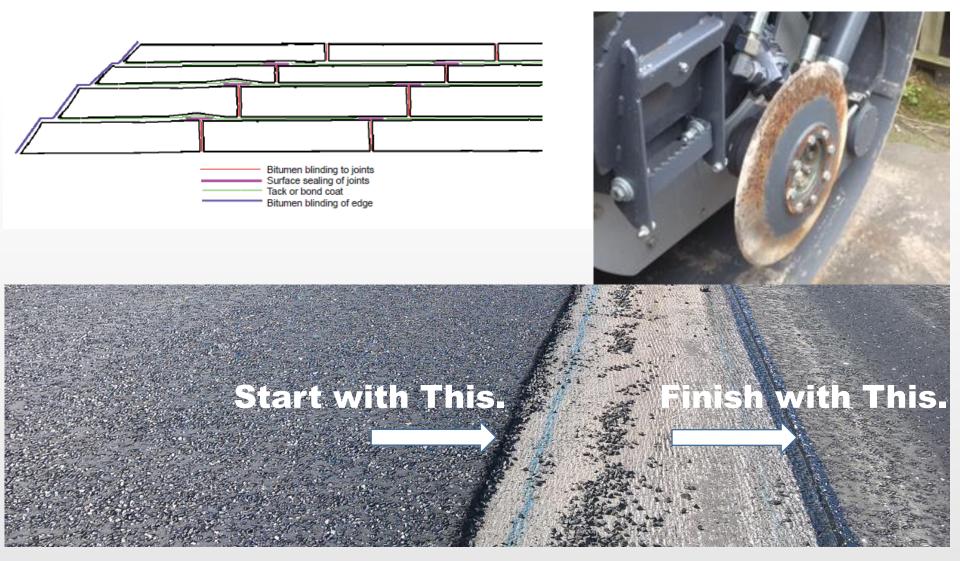
CAUSES OF FAILURE - BOND COAT



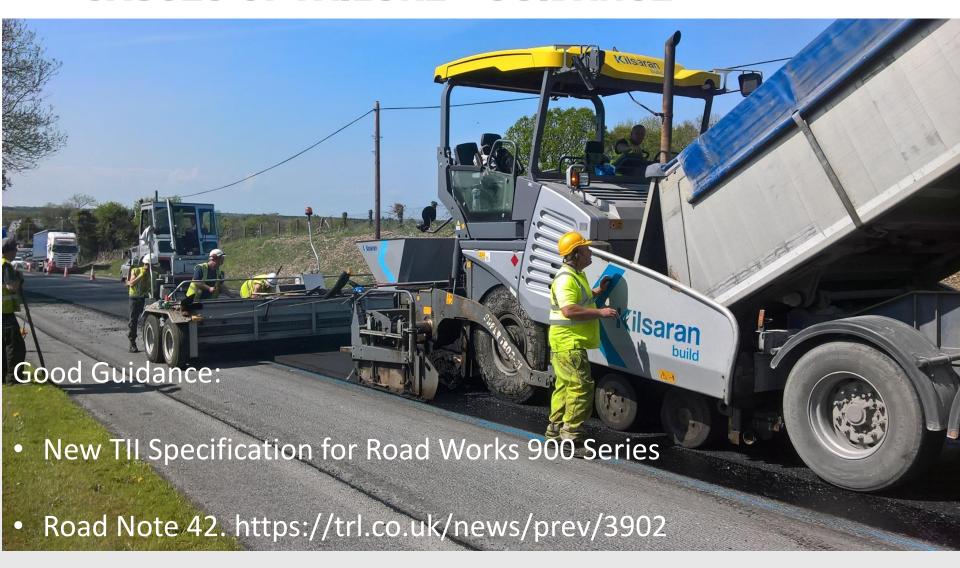
CAUSES OF FAILURE - COMPACTION



CAUSES OF FAILURE - JOINTS



CAUSES OF FAILURE - GUIDANCE





THANK YOU FOR YOUR TIME!

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