



Workshop Report: “The quintessence of this conference”

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*Cost effective high
performance surfacings*

SPRAYED
SEALING
CONFERENCE
2008



Key topics identified and ranked

1. Technical issues
2. Global issues
3. Knowledge sharing



Technical issues - Urgent

- Withstanding horizontal shear/ tyre pressures
- Changing traffic compositions
- Pavement structure/ surface preparation
 - embedment
- Operational effects in delivering design
 - aggregate spread rate
- Extending the sealing 'season'
- Underperforming primes and primerseals
- Binder choice vs. climate and risk assessment



Technical issues - Important

- Seal design inputs
 - Data accuracy/ practicality/ refinement
- Improving seal design methodology
- Data collection:
 - what was actually done vs. what was designed
 - what do we measure
 - differences between test methods
 - characterisation of design traffic
- Capacity of industry – getting the most of existing resources



Technical issues – Longer term

- Durability of the finished seal
- Rolling – time/ temperature/ traffic/ binder types
- Emulsion – binder recovery and method



Global issues - Urgent

- Opportunities for sealing industry to actively impact on emissions/ total energy audits
 - Life cycle analysis vs. alternatives
 - Critical resources – e.g. water usage/ recycling
- Reduced tolerance of failures
- Extended life expected from existing assets
- Bitumen alternatives/ bitumen extenders
- Increased demand for sprayed seals to
 - reduce material wastage in maintaining unsealed roads
 - surface motorways as asphalt increases in cost
- Reseal intervention points / network optimisation



Global issues - Important

- Contractual arrangements
 - apportioning risk
 - driving choices
 - encouraging changes

Global issues – Longer term

- Materials and roads recycling
- Rejuvenators



Knowledge Sharing - Urgent

- Skills shortage
 - in both public and private sectors
 - promotion of the industry as a career
- Glossary – international variations in terminology cause misunderstandings
- Staff secondment – public/ private
- More 'best practice' forums
- Training courses
- Procurement process used more to encourage training



Knowledge Sharing - Important

- Location of existing knowledge is ad hoc – need a method to centralise
- More use of technology to offset skills shortage

Knowledge Sharing – Longer term

- Barriers to employment of overseas skills



How can the sprayed sealing industry contribute to sustainability?

- Global alliance with sprayed sealing community
 - Global strategic model
 - Funding?
 - Resources?
- Develop topics and prioritise issues globally
- Utilise existing forums? (e.g. PIARC, TREx, etc)
- Increase international peer review of research
- Austroads (AUS + NZ) could include South Africa as correspondent
- Establish a knowledge exchange hub as an ARRB project



Thank you