



# THE ROAD MAINTENANCE FORUM

WEDNESDAY, 5TH OCTOBER

## Commercial Laboratory Support to Road Maintenance Industry



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# DISCUSSION TOPICS

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- Why Laboratory Support for Maintenance ?
- Laboratory Mix Design
- Certification
- Process Control
- Quality Management
- Visual Monitoring
- Sampling
- Testing and Guideline Specifications
- Closing Remarks

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# Why Laboratory Support for Maintenance ?

- Laboratory Support = Confirming and Ensuring Quality
- Quality = Long lasting end products beneficial to Road user
- Laboratory Support = Design Support
- Laboratory Support for Maintenance = Paradigm shift
  - Testing without time delays
  - Visual Evaluation
  - On-site testing
- Commercial Laboratories are equipped to assist !!

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# Laboratory Mix Design

- Maintenance operations related to Speed and Urgency.
- No time for detailed design strategies other than ensuring quality products to be used.
- Laboratories can assist with mix designs – **Cold or Hot**
- Several products available but watch out for “fly by night” products.
- Certified products available and can ease time delays in confirming acceptability of products to be used





# Certification

- Agrément and SATAS (in progress)
- Good guidelines and specifications ensuring quality products
- Process to obtain Certification needs decent planning and process can take long if not tackled correctly.
- Assistance in industry available.
- Specifications are performance driven and history on well performed products are NB!!

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# Process Control

- Process control – Contractors Responsibility
- Preparation of working areas extremely important to optimise product to be used for Maintenance:
  - Application of a bond coat
  - Weather limitations
  - Equipment required to ensure safety, application of the bond coat and proper installation of the product
  - Treatment of joints with existing, sound pavement layers
  - Opening to traffic





# Quality Management

- **BE INFORMED** on QA systems and procedures
- Quality control Involvement of Engineer.
- Evaluate and approve applied products
- Visual Evaluation
- Confirmation of Acceptable Laboratory testing
- On site testing – Important - **Should be practical**



# Visual Monitoring



## Inspection

Best results in  
quality product  
and assessments  
process, as well as  
integral part of  
for  
properties,  
visual defects  
rejecting the

and







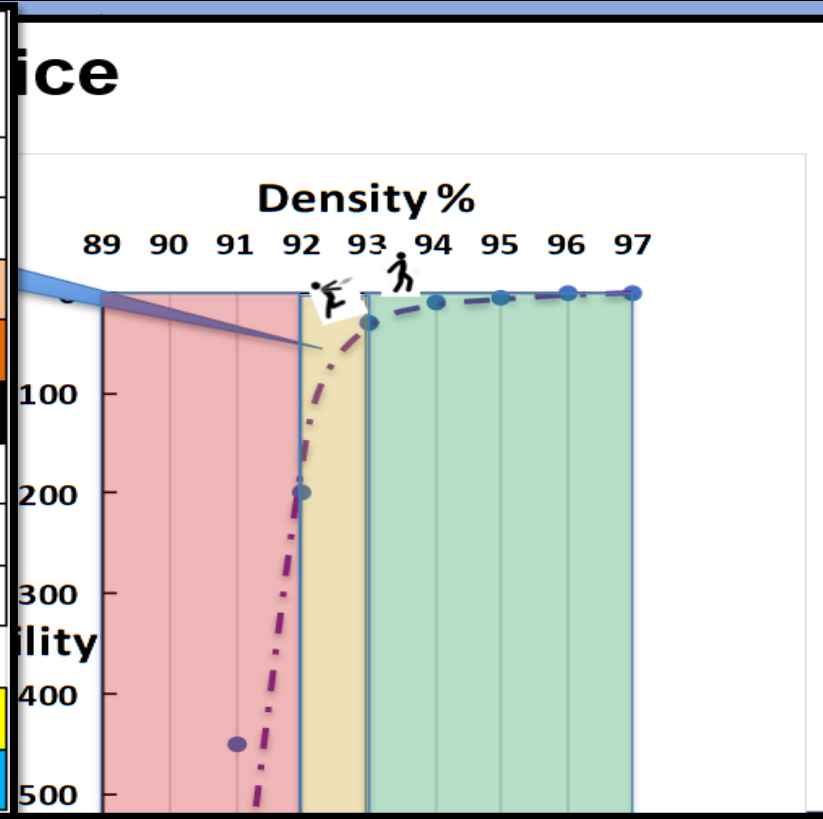
# Sampling

- Even if products to be used are Certified it is always good practice to confirm product quality!
- This the make-or-break situation on any construction site
- Good guidelines available- USE THEM !!
- Incorrect sampling can result in huge cost implications for client and/or contractor



# Testing and Guideline Specifications

TRH 14 Classification	DN value (mm/blow)
G3	<2.0
G4	<3.7
G5	<5.7
G6	<9.1
<b>G7</b>	<b>&lt;14</b>
G8	<19
G9	<25
G10	<48
C3	1.8-0.6
C4	3.4-1.8



# Closing Remarks

- Even for Maintenance quality products are Essential to ensuring long lasting solution to safeguard the end user.
- Laboratories are ready and equipped to meet the demand for on-site and laboratory testing.
- Practical Approach towards maintenance projects needs to be planned properly and implemented.
- *“The identification of non-conforming work, and especially the frequent occurrence thereof, often leads to frustration, or even conflict, between the site supervisory staff and the contractor. A proactive approach to ascertaining the reasons or causes for non-conformance, as well as positive inputs with respect to possible solutions, is encouraged.”*



# Thank You



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