

Stabilization Sub-committee



P Paige-Green

BE CSIR



**cement &
concrete
institute**

CSIR

our future through science

Current status

- Decision made to prepare updated stabilization manual (basis of TRH 13 update??)
- Included project in 2010/11 CSIR PG allocation
- In progress
- Gautrans Stabilization Guide used as base document
- Remove Chap 2 (Mechanical stabilization) and Chapter 11 (Surface stabilization and fines retention on unsealed roads)

Current status

- Incorporated missing TRH 13 sections
- Incorporating other relevant information
 - Little – lime stab
 - NCHRP MEPDM, CSIR SRP
 - Protocol results ??
 - etc
- Will update and answer as many of the questions raised at the Stabilization Workshop as possible
 - No new research specifically
 - Will identify gaps

Current status

- Review by Stabilization Sub-committee (± 12 members)
- Release for implementation (status? Basis of revised Draft TRH 13??)
- 80% complete
- Problem?

CEMENT CONTENT:

- 10% SAMPLE 1
- 7% SAMPLE 1
- △ 4% SAMPLE 1
- ▲ 7% SAMPLE 2
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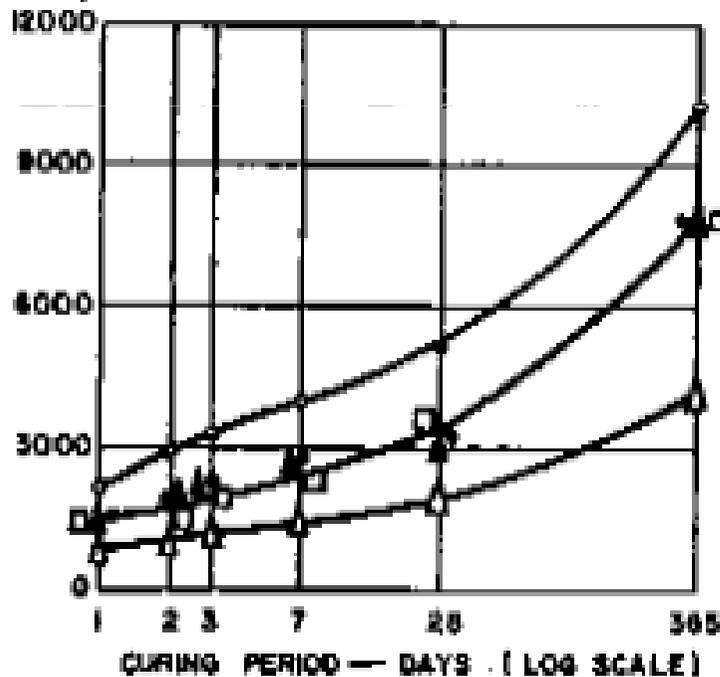
CEMENT CONTENT:

- 13% SAMPLE 1
- 10% SAMPLE 1
- △ 7% SAMPLE 1
- ▲ 10% SAMPLE 2

UNCONFINED COMPRESSIVE STRENGTH (PSI)

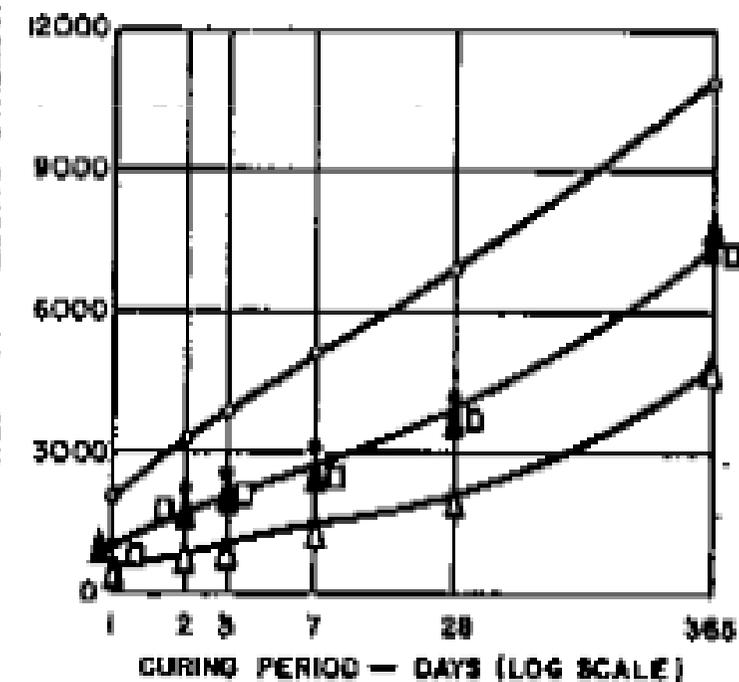


UNCONFINED COMPRESSIVE STRENGTH (PSI)

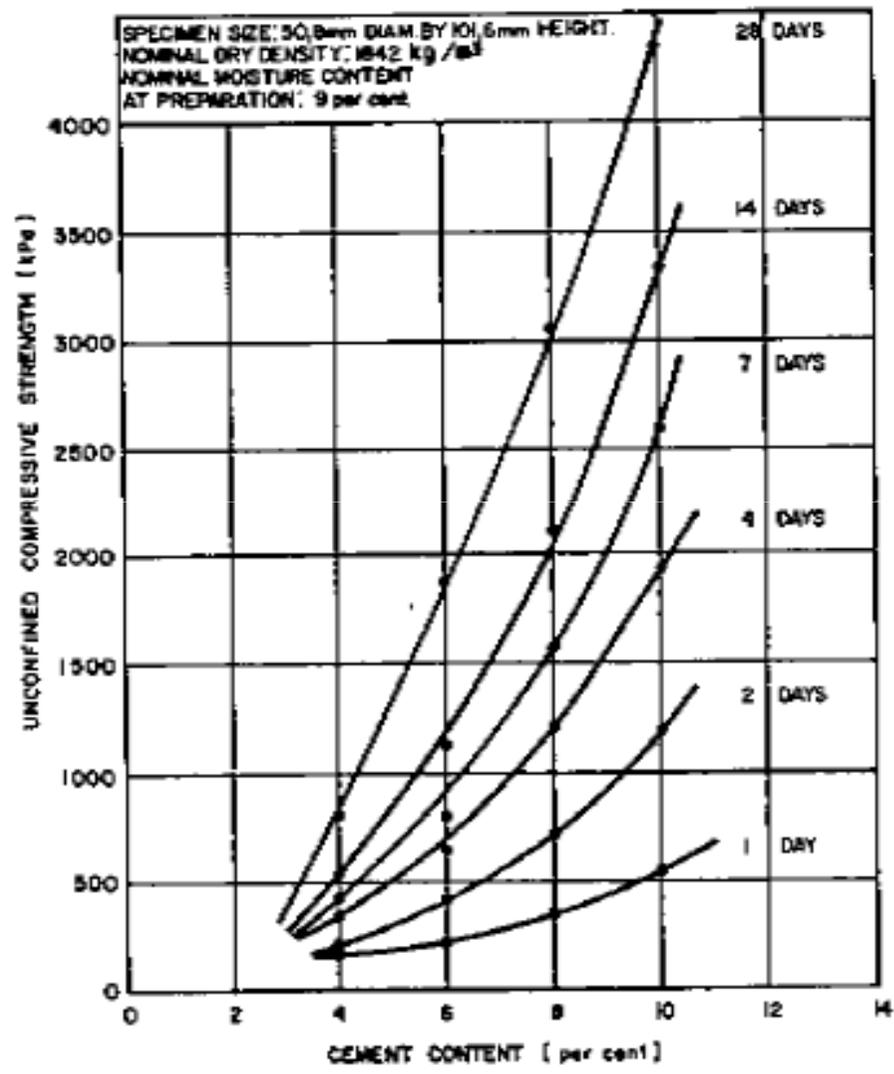
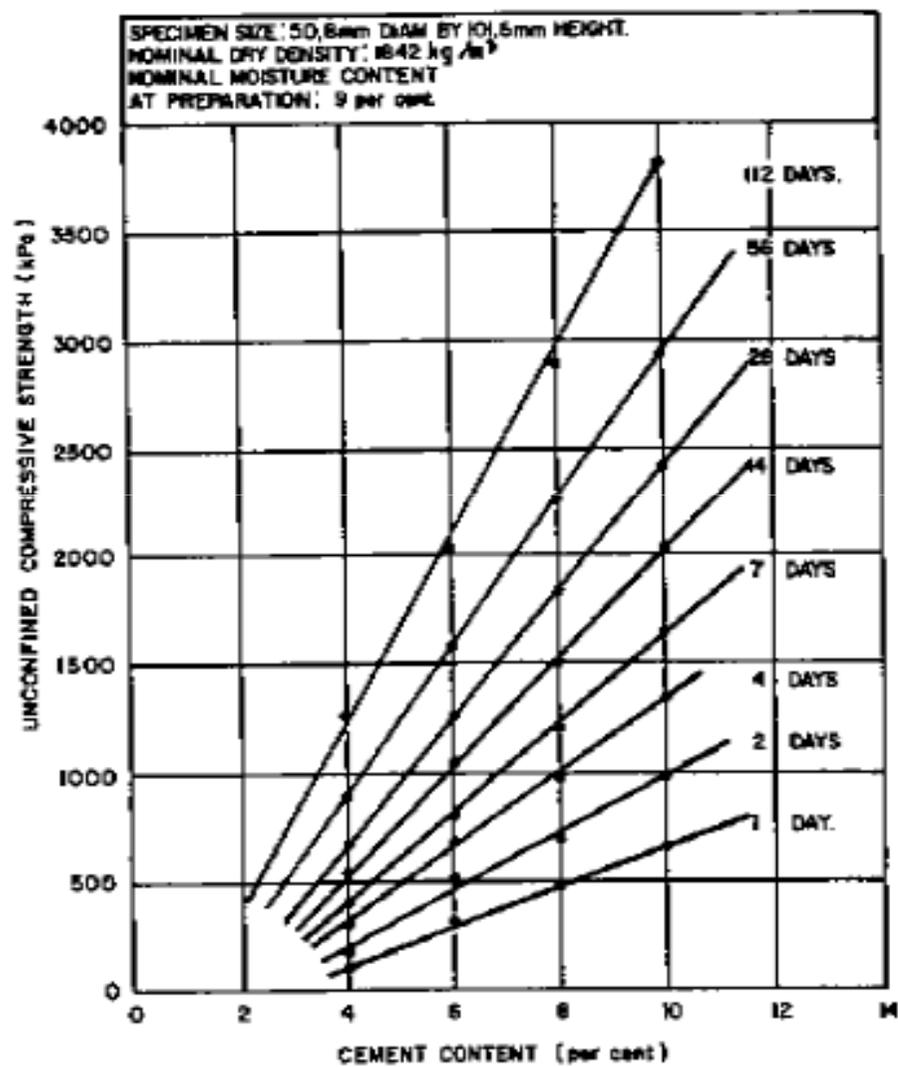


WELL GRADED SAND

UNCONFINED COMPRESSIVE STRENGTH (PSI)



GRAVEL



Requirements

- Lot of testing
- Needs to be done on a large scale
- Various options
- Different labs (not recommended for comparative purposes)
- Single lab – time and cost
- Funding ??

Solution ?

- UP final year dissertations –
 - Some work likely
- Some short term, some long term
- Lots of other testing
- Ongoing coordination and supervision
- Must be done !!

CHEMICAL STABILIZATION

(Snake oils)

- Compile existing information into a single comprehensive document (based on slide presentation & other published information)
- On same basis as conventional chemical stabilization
- Different “steering (review) committee”



CHEMICAL STABILIZATION (Non-traditional)

- Busy with it (15%)
- Complete by March 2011
- Will incorporate ongoing monitoring results as well
- Plus any other ones – volunteers
- Contents of guideline

CHEMICAL STABILIZATION (Non-traditional)

- Introduction
- Types of stabilizer
- Actions and processes
- Testing
- Standards and specifications
- Construction
- Quality assurance
- Maintenance and rehabilitation



THE END

THANK YOU