

Sampling & Analysis of Hardened Concrete

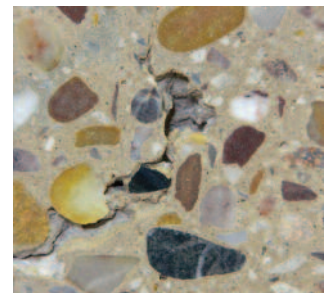
A principal and versatile construction material, it is inevitable, given the “high tech” nature and sheer frequency of use of concrete, that problems will arise from time to time particularly in view of the diversity of cement and aggregate types, admixtures, additives and the corresponding requirements for handling, placing, finishing and curing. Basic tests such as in-situ slump and laboratory compressive strength and density are used to demonstrate compliance of concrete mixes but more complex problems



and scenarios need careful sampling and laboratory testing and analysis to give the best prospect for accurate interpretation, understanding and resolution.

We have the following range of sampling services:

- Advisory input regarding appropriate approach, sampling methods and number and size required.
- Full sampling service including diamond drilling of core specimens, rotary percussive and other sample recovery techniques.



Kiwa:
the home of
independent, high
quality testing



How can we help?

Chemical Analysis of Concrete:

- Cement content and cement: aggregate ratio
- Water : cement ratio
- Chloride ion content
- Sulphate content / evidence of "sulphate" attack
- Carbonation depth
- Alkali content
- High Alumina Cement (HAC): basic confirmation or comprehensive investigation
- Identification of ASR and other deleterious chemical reactions
- Thin section petrography for "forensic" investigation
- XRD and SEM/EDX instrumental methods

Chemical Analysis of Aggregate:

- Petrographic examination including ASR reactivity / assessment
- Sulphate and chloride content
- Organic matter content
- Acid soluble material content
- Soundness / durability

Other Services:

As an inspection, testing and investigation company with over 35 years of service to the construction, civil engineering, environmental and associated industries, Kiwa CMT Testing provides our clients with a comprehensive scope of laboratory and site testing and investigative operations, under the following headings:

- Contaminated Land
- Offsite Disposal
- Chemical Analysis
- Concrete & Mortar
- Building Products
- Geotechnical Investigations
- Lighting Column Testing
- Structural Investigations
- Sports Stadia Barrier Testing

We provide key on-site and off-site investigative, consultative and testing services. For our clients we are 'The Obvious Choice'.

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How to contact us

Please call us on +44 (0)1332 383333 or email: cmtenquiries@kiwa.co.uk and we will get straight back to you. Why? Because we like to help.

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