



Concrete Sampling and Diagnosis

Concrete Diagnostics Pty Ltd can assist you in concrete sampling as well as diagnosis. What services can we offer?

- **Location of Reinforcement** and other embedded objects within the concrete using methods associated with Ground Penetrating Radar (GPR) and electromagnetic field detection (for live conduits).

Depending on access several sampling methods may be arranged such as;

- **Collection of concrete dust.** We have made a light weight dust collector similar to that in AS2701 for high rise dust collection. The light weight design improves safety if the collector was to fall from height.
- **Collection of concrete cores.** Securing of cores is important especially if compressive strength is to be measured and to avoid contamination. Where appropriate we use AS1012.14-(6.2) for securing cores with water cooled, diamond coring machine secured to the concrete surface.

Supporting diagnostics may also include;

- **Chloride and sulphate profiling;** whereby the core is sliced into smaller biscuits and analyzed. This can assist in determining the degree of chloride penetration into the concrete structure and where the chlorides may have originated.
- **Carbonation testing;** normally performed on fractured cores removed from site or can be performed on concrete fragments in-situ.
- **Compressive strength;** of the concrete can be determined by removal of concrete cores for crushing. A **Schmidt hammer** can also be used; however in older concrete structures uncertainty due to carbonation of the concrete can be quite high so it is generally only used as a guide.

With over 12 years of experience, providing a range of concrete scanning, testing, and diagnostic services. We are only too willing to assist you on your project, no matter how large or small.

Contact us on **0458 772 327** / admin@concretediagnosics.com.au

or visit us on www.concretediagnosics.com.au



View of dust collection from a high rise building for chloride analysis.

Email: admin@concretediagnosics.com.au



View of reinforcement location prior to core extraction for compressive strength testing.

www.concretediagnosics.com.au



View of core removed for diagnosis.