

Expert Services

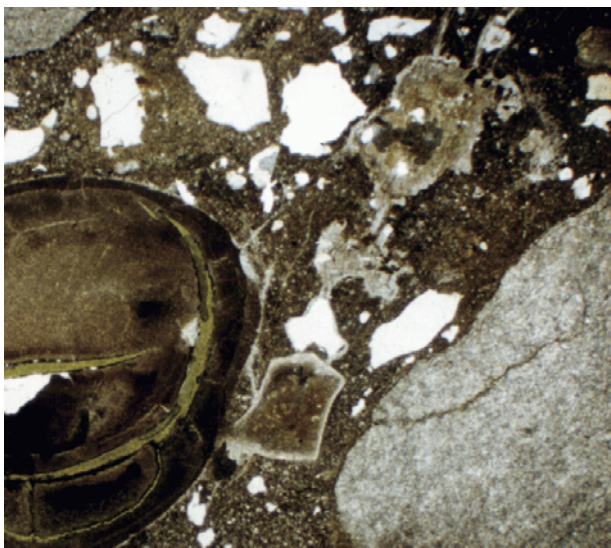
Geomaterials

The field of geomaterials encompasses soils and rocks, either in processed or natural unprocessed form, used in the construction of buildings and structures.

Sandberg offers expert services across the entire range of geomaterials covering in particular natural stone, concrete and its constituent materials (aggregates and cement) and roofing slate.

In addition to traditional consulting and testing, our expert services include writing litigation reports, advising counsel and appearing in court as expert witnesses.

In the case of concrete, our expert petrographers are able to determine causes of failure such as alkali aggregate reaction, sulphate attack (including thaumasite) or other failure mechanisms.



Concrete cracking due to alkali silica reaction



Deterioration of slate roof

With slate for example, both indigenous and imported materials have sometimes failed in service and Sandberg experts supported by UKAS accredited in-house laboratories have been able to determine the cause of failure, extent of damage and give guidance on the optimal solution, be it selective replacement or total re-roofing.

Recent cases include:

- Natural stone flooring failures
- Natural stone cladding problems
- Slate roof deterioration
- Concrete failures
- Staining Investigations
- Aggregate Deterioration