

# Materials Chemistry

## STATS Consulting

- Identification and analysis of construction materials
- Expert analysis of condition and performance assessment

## STATS Materials Laboratories

- In-house UKAS accredited laboratory
- Experienced construction materials scientists/chemists

Construction materials encompass a wide range of raw constituents and finished products. If a new product is to meet the demands that are placed upon it then it must be subjected to rigorous testing.

Materials require compliance testing before use or compliance may be questioned once they are in place and require investigation. Also, materials may fail in service and require investigation to establish the cause of failure.

STATS is able to offer an analytical service which is comprehensive yet cost-effective.

### Materials analysed include:

- aggregates, cements, concretes
- concrete and mortar admixtures
- mortars, plaster, screed and render
- polymers, paints and coatings
- adhesives and sealants
- bricks and blocks
- potable and non-potable water

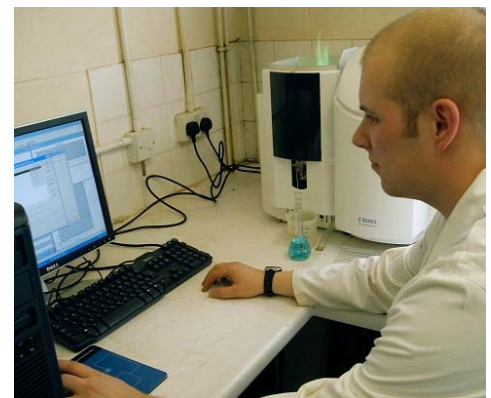
### Techniques include:

- infrared spectroscopy
- atomic absorption spectrophotometry
- uv – visible spectrophotometry
- scanning electron microscopy
- gas & liquid chromatography
- differential thermal analysis
- X-ray diffraction of minerals
- traditional wet chemistry

At STATS, a multi-disciplinary team of chemists, engineers and geologists can provide expert analysis and interpretation, leading to client-based, cost-effective and innovative solutions to a whole spectrum of problems and challenges encountered in the construction industry.



Analysing compounds



Quantifying elements



UKAS accredited laboratory

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