Historic Lime Based Material Testing

The UK has a wealth of historic buildings, structures and monuments, many still in everyday use. Conservation is the first priority but, with time, it is inevitable that these structures will need careful, sympathetic replication and matching of historic mortars, concretes, renders, plasters and finish coatings to enable suitable repair or restoration.

It is particularly important to distinguish between lime and cement bound materials; basically these two are fine in their own right but simply not compatible, witness the significant damage done to older construction (cracking, water ingress/moisture related issues and salt crystallisation/surface disruption) caused by well intentioned repairs carried out using cement based material, over existing lime mortars and similar.

Why Use Kiwa CMT Testing?

We offer a full range of investigative sampling, testing and analytical services. Our highly respected, and qualified team of Environmentalists, Chemists and Geologists provide a one stop service including comment, advice, assessment and interpretative reporting on a range of issues relating to historic materials.

**Matching and replicating existing historic materials for restoration and repair**

- Identification of the specific nature and type of existing lime binder (hydraulic, non-hydraulic, lime putty, “hot” lime etc.)
- Calculation of the binder concentration and mix proportions
- Identification of pozzolana
- Confirmation of the composition and grading of the fine aggregate
- Overall characteristics and condition of the matrix

**Quality control of modern lime based materials**

- Verification of compliance with contract specifications
- Identification of cause of failure or sub-standard performance

For advice and services on any issues relating to the testing of historic lime materials please contact.

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or alternatively you can speak to any member of the Chemistry department on the same number.

Our accreditations speak for themselves. Kiwa CMT Testing is a UKAS accredited Laboratory. Details of tests included in our current schedule can be seen at www.ukas.org.

We are also CHAS accredited and Constructionline registered so you know you can depend on our credentials.