



REMEDIAL TECHNICAL SERVICES

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Dampness and Timber Infestation Courses

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Dampness in Buildings

Moisture in Masonry:

Distribution:

- Hygroscopic and Capillary moisture
- Saturation
- Distribution between different materials

Measurement:

- Electrical moisture meters
 - use and interpretation of results
- Carbide ('speedy') meters
- Gravimetric methods
- Other methods.

Salts:

- Efflorescent, hygroscopic and Deliquescent
- Importance and origin
- Sulphates, chlorides and nitrates and Other salts.

Moisture in Wood:

- Distribution
- Measurement
- Importance

Rising damp:

- Definition
- How water rises
 - factors affecting rise
- Identification of rising dampness
 - assessing efficacy of dpc's
 - methods
- Chemicals dpc's
 - types and application
 - performance
 - limitations and problems.

Timber infestation*

Wood:

- Formation
- Structure.
 - macro and microscopic
- Durability and natural resistance
- Preservation

Rots:

- Wood as a food source
- White and brown rots
 - properties and identification
 - damage
- Requirements for decay.

Dry rot (*Serpula lacrymans*):

- Recognition
- Biology
- Control

Wet rots:

- Coniophora puteana*
- Fibroporia vaillantii*
- Paxillus panuoides*
- Donkioporia expansa*
- Asterostroma spp.*
- Phellinus contiguus*
- Other fungi in buildings

Wood boring insects:

- Life cycle and morphology
- Anobium punctatum*
 - 'Ambrosia' beetles
- Ernobius mollis*
- Xestobium rufovillosum*
- Lyctus brunneus*
- Hylotrupes bajulus*

Replastering
-- function and performance
-- sands and additives.
--Problems.

Condensation:

Relative humidity and dew point

Surface condensation:

-- formation
-- moisture generation
-- mould growth
-- identifying and determining
condensation
-- control

Interstitial condensation:

-- definition
-- assessment
-- control

Water penetration:

-- above ground
-- below ground
- basic tanking systems.

Forest longhorns

Weevils

Wood wasps

Action and performance of remedial
chemicals

* = Samples of decay, insects and insect
damage for study