Academy of Concrete Technology





FORENSIC: UNDERSTANDING CONCRETE DEFECTS & DIAGNOSIS>>>>>



CONCRETE SPECIALIST

- Planning and preparations for inspection
- 2. Identifying distress
- a) Cracks
- b)Staining
- c) Leakage
- d) Damping
- e) pop out
- f) spalling
- g) chemical attack, etc.
- 3. Sampling and testing
- a) Tracing non-compliance material.

- b) Understanding Non-destructive test
- Rebound hammer
- Winsor Probe test
- c) Destructive concrete test
- Core test
- Water absorption test
- Water penetration test
- d) Petrographic/chemical/mineral analysis
- Cement and water content
- Aggregate and mineral content
- Equivalent alkali content
- Chloride content
- Sulphate content

Reference:

TR54 Diagnosis of deterioration in concrete structures

TR31 Permeability Testing of Site Concrete

TR22 Non-structural cracks in concrete

ACI 201.1R-08 Guide for Conducting a Visual Inspection of Concrete in Service

BS EN 12504-1:2019 Testing concrete in structures Part 1: Cored specimens — Taking, examining and testing in compression BS EN 13791:2019 Assessment of in-situ compressive strength in

structures and precast concrete components Etc.



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