

to reflect sunrays.

- e. Store bagged cement above ground on wooden slats or duckboards to allow the efficient circulation of air around the bags in a dry waterproofed storage facility.

2. Aggregates:

- a. Store in a special bin or on a specially prepared shaded and covered concrete platform. The heap of the aggregate must be capable of draining freely.
- b. Maintain a separate storage facility for different type or grade of aggregates. Prevent contamination of aggregates.

3. Admixtures: Store in waterproofed shaded closed container fitted with a circulation pump.

### **3.1.11 Concrete Mix Design**

- A. The Contractor shall provide concrete that is described by the Engineer by reference to a combination of characteristic properties.
- B. Mixes for structural concrete shall be designed by the Contractor to meet the performance requirements specified in clause 1.11.A above.
- C. The Contractor is responsible to the Engineer for demonstrating that the proposed mix meets with the performance requirements.
- D. Concrete shall comply with BS EN 1992-3. Sampling for test purposes shall comply with BS 1881 Part 101 (on site) & Part 125 (in laboratory).
- E. If air-entrainment is specified, the average air content at the time of placing measured in accordance with either Method A or Method B of BS 1881 Part 106 shall be  $5\% \pm 1\%$  for concrete containing 20mm maximum size aggregate.
- F. Concrete for water-retaining elements shall be watertight and shall comply with the recommendations of BS EN 1992-3.
- G. Concrete for paving or precast units shall be tested to BS 1881 Part 118.
- H. If concrete specimens are cured at higher temperatures or for longer periods than BS 1881 Part 111 requires, the adjusted Characteristic Compressive Strength (CCS) shall be calculated as follows:

$$\begin{aligned} 100f'/f &= A + B \log \{24D (T+12)/1000\} \text{ where} \\ f' &= \text{adjusted CCS} \\ f &= \text{specified CCS} \end{aligned}$$