

1. Formwork shall be watertight.
- E. Mixing shall be according to the manufacture's recommendations.
- F. Primer
  1. Suitable epoxy primer shall be utilized for all applications, unless otherwise approved by the Engineer.
  2. Mixing application of the primer shall be in strict accordance with manufacturer's recommendations.
- G. Placement
  1. Micro concrete shall be placed according to manufacturer's recommendations.
  2. All cavities shall be fully filled to the pre-existing surface level and trowelled to a smooth finish.
  3. Curing shall be conducted according to the manufacturer's recommendations.

### **13.3.15 Application of shotcrete**

- A. Prior to any trial mixes, The Contractor shall submit to the approval of the Engineer:
  1. The mix design and the materials certificates of the shotcrete.
  2. All the technical data and tests results of the proposed admixtures materials.
  3. The proposed site procedure including curing method.
- B. All equipment used in the shotcrete process shall be in good working condition and suitable for their intended purpose.
- C. The Contractor shall provide the Engineer with calibration certificates from an independent party.
- D. Prior to start the shotcrete works, each nozzle man will be subject to certification by the Engineer in accordance with ACI 506.3R-91. The Contractor shall provide all the necessary equipment/ materials/ personnel for the certification without any additional cost.
  1. Each nozzle man shall have at least five years experience in the Gulf Region.
  2. Each nozzle man shall spray concrete in three wooden boxes 80x80x20 cm each. The wooden boxes shall be installed in various positions as directed by the Engineer. At least one of the boxes shall contain reinforcement steel:
    - a. 3 cores from each box shall be drilled, visually inspected and then tested