

- A. When it is possible to pour in-situ concrete using conventional methods such as repair to slabs, walls etc. the requirements for cast in place concrete as given in Section 03300 of the specification shall apply.
- B. Aggregate sizes may have to be changed in view of the repair geometry. The Contractor shall submit proposals for approval by the Engineer.
- C. Cracks appearing in the new works are not acceptable and shall be repaired at the Contractor's own cost and to the Engineer's satisfaction.

9.3.11 Repair Using Free Flowing Cementitious Micro-Concrete

- A. Adequate formwork shall be provided in accordance with the relevant codes of practice. This shall be securely fixed to withstand the hydraulic pressures of the fluid micro-concrete repair material without distortion or movement during placement.
- B. The formwork shall be sealed and made watertight at all joints between panels and between the formwork and the existing concrete surface so as to prevent grout loss.
- C. The formwork shall be constructed from appropriate materials as agreed with the Engineer to achieve the required finish as specified in Section 03100.
- D. Formwork surfaces that are to be in contact with the micro-concrete shall be treated with a suitable mould release agent. This shall be used in accordance with the manufacturer's recommendations.
- E. The entry point of the feed pipe into the form shall be at the lowest point of the void.
- F. Sufficient hydrostatic head or pumping pressure shall be maintained to ensure that the void is filled completely and air is not entrapped.
- G. Where necessary, provision shall be made for controlled bleed points to prevent air entrapment and enable the extent of flow of the repair material to be assessed.
- H. The micro-concrete shall be mixed and placed in accordance with the manufacturer's recommendations, particularly with regard to water content, mixing equipment and placing time.
- I. The placing of the micro-concrete shall be, as far as possible, continuous. The mixing operation shall be timed so that there is minimal interruption in the material flow. If however, placing is interrupted, the operation shall recommence as soon as possible while the repair material retains its flow characteristics.
- J. The formwork shall not be removed until the area repaired with micro concrete has