

- D. All the components of the mortar system shall come from the same manufacturer and shall be a complete and comprehensive repair system.
- 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. Mortar Application
 - 1. Mortar application shall be according to the 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.

13.3.14 Application of micro-concrete

- A. Prior to start the repairs, and in view of prequalifying the proposed Micro-Concrete system, The Contractor shall apply this method over three representative areas selected by the Engineer:
 - 1. 3 cubes from each area shall be prepared and crushed for determination of their compressive strength (BS 1881/BS 4550)
 - 2. 3 Samples for water penetration to be tested in accordance to DIN 1048
 - 3. From each area, three pull out tests shall be performed by the Contractor to determine the bonding strength between the old concrete and the mortar.
 - 4. The rehabilitation works cannot start unless the above prequalification tests are successful and to the satisfaction of the Engineer.
 - 5. The Micro-Concrete system is subject to the approval of the Engineer prior to any related site works.
- B. All concrete shall have been saw cut all around, chipped down to remove defective or contaminated concrete and thoroughly cleaned by high-pressure air blast just prior to mortar application.
- C. Rebar shall have been repaired or placed as directed by the Engineer.
- D. If necessary, formwork shall be erected according to section 03100.