A. In order to ensure that materials, equipment and methods of application proposed by the Contractor are suitable for the intended purpose, trial and demonstration repairs shall be carried for each and every application and scenario prior to commencement of the actual work. Tests shall be carried out regarding materials. Testing programmes shall be dependent on the material, application and exposure. Methods are therefore subject to modification and change depending on the trial results.

B. No work shall start until successful trials have been carried out and the test reports have been studied, analyzed and approved by the Engineer.

C. Sample trial repairs for approval shall be undertaken for each type of designated repair or system not less than six weeks before the relevant work is scheduled to begin. Trial repairs shall be carried out using the same materials intended to be used in the works. If any of the materials, system or formulas are changed during the course of the works new trials shall be carried out.

D. The Contractor shall ensure that the operators he selects have the necessary skills to complete the application in a professional manner. In the event the Contractor is unable to recruit skilled staff, he shall propose a professional subcontractor.

E. Trial repairs shall be assessed by the Engineer to ensure that the required standards will be achieved with the materials, methods and workmanship proposed and demonstrated by the Contractor. Trial repair areas shall be used as a standard against which subsequent work shall be compared and judged.

F. Sample repairs shall be chosen, as far as it is reasonably possible to emulate the geometry, complexity and orientation of the structure to be repaired.

G. The Contractor shall prepare a complete record of the trials, to include but not be limited to the following:

    a. Date, time, location of trials and ambient conditions.

    b. Method of substrate preparation and standard.

    c. Materials used together with the mix proportions.

    d. Equipment and tools used.

    e. Material handling, mixing and application methods and records.

    f. Man hours expended.

    g. Location and name of laboratory and results.

    h. Expert interpretation, analysis, conclusions and informed opinion and