

- C. If the protective coating system is found to be defective during the warranty period, the manufacturer and Contractor shall replace and/or repair the protective coating system to the satisfaction of the Engineer.

1.2 Part 2 Products

1.2.1 General

- A. Materials of construction and corrosion protection measures shall be selected to ensure galvanic compatibility, corrosion resistance properties and structural performance and shall be capable of providing a 50 year minimum design service life.

1.2.2 Structural Steel

- A. All structural steel sections shall conform to BS 4-1 and BS EN 10210. Steel grades shall be as specified on the drawings.

1.2.3 Bolts Nuts and Washers

- A. Bolts, nuts and washers shall be in accordance with BS 4190 for black bolts and BS 4395 for high strength friction grip bolts.

1.2.4 Welding Consumables

- A. Welding consumables shall be in accordance with ISO 14341 and ISO 2560.

1.2.5 Grout

- A. Grout for filling anchor bolt pockets and to the underside of base plates shall be non-shrink grout, premixed, comprising of non-metallic aggregate, cement, water reducing and plasticising additives capable of developing a minimum compressive strength of 50 N/mm² at 28 days.

1.2.6 Protective Coatings

- A. All abrasives, solvents and coating materials shall be purchased only from well-established manufacturers with at least 10 years' experience of supplying materials for use in environmental conditions similar to Abu Dhabi.
- B. All materials for each coating system shall be supplied by the same manufacturer.
- C. Colour shall be as approved by the Engineer.

1.2.7 Materials Testing

- A. The Contractor shall engage at his own expense an independent certified testing laboratory approved by the Engineer to inspect high strength friction grip bolted connections and welds and to perform all tests and submit test reports to the Engineer as specified.