

Bill of Quantities – Repair, Rehabilitation & Protection

RCC Members Strengthening with Micro Concrete

SI No	Description	Unit
1	<p>Surface Preparation</p> <p>All cracked concrete should be removed by chipping manually. The chipping should be done to a depth of 10 mm behind the reinforcement and shall continue along the length of reinforcement till a non- corroded area is reached. The exposed concrete shall be washed thoroughly with a high-pressure water jet. The exposed reinforcement shall be thoroughly cleaned to remove corrosion scales either by sand/emery paper. The Columns and Beams to be repaired should be properly supported as per direction of the site engineer. The cost is inclusive of scaffolding, sand/emery paper, labour, equipment hire charges etc. All complete and depositing the debris outside the premises.</p>	M ²
2	<p>Epoxy Grouting</p> <p>Fixing PVC or GI 12mm dia Nozzle on cracks and de-bonded areas in RCC Columns & Beams and grouting the same using La DynoGrout LVEP under mechanical pressure through a grouting pump. The two components of La DynoGrout LVEP should be thoroughly mixed as recommend in the Technical Literature</p>	Per point
3	<p>Shear Key Connector</p> <p>Drilling holes of 10mm (8 mm rod) a to a depth of 50mm-75mm or as required by design in the core concrete @ 400 - 500 mm c/c. Cleaning the hole by air blower and administering Barfix Polyester resin grout after thorough mixing of its components through an inject syringe and immediately inserting 8mm MS rod to the entire depth and carefully fixing the same. The rate to include chemical, labour, tools and tackles all complete.</p> <p>N.B.: For different size of reinforce and other design criteria, please refer to Barfix Technical Literature.</p>	Nos
4	<p>Epoxy Bonding Agent</p> <p>Providing, mixing and applying single coat of La Bond EP by a brush on prepared surface of existing concrete as per Technical Literature. The rate includes material tools & tackles all complete.</p>	M ²
5	<p>Protective Anti-Corrosive Coating</p> <p>Providing Single coat of Zinc rich anti-corrosive Epoxy Primer La BarCote ZP giving a dry film thickness of atleast 100µ to the reinforcement bars. The primer shall be applied in accordance with Technical Literature. Special care should be taken to apply primer even behind the bars. The cost is inclusive of materials, scaffolding, labour, painting brush etc., all complete. The measurement to be considered on the concrete area only.</p>	M ²
6	<p>Shuttering</p> <p>Water tight shuttering for encasement shall be provided as per design such that the micro-concrete can be poured into the formwork. Adequate supports to be provided for the formwork.</p>	M ²

7	<p>Re-instatement with Micro-Concrete Supplying, mixing and pouring La StrucRep MC micro-concrete with water powder ratio of 0.16. The mixing to be done strictly as recommended in Technical Literature. The rate to include Material, Shuttering, Labour, Tools & Tackles all complete.</p>	M ²
8	<p>Protective Coating Supply and apply two coats of La GreenCote, water based, acrylic, elastomeric wall coating @ 4-5 sqm/ltr in 2 coats using a roller/brush on primed surface. The rate to include, Material, Labour, Tools & Tackles etc., all complete N.B: The colours of the coating needs pre-approval from the concerned authorities of the Company.</p>	M ²