Nitomortar® EL-HB

**High build epoxy patch repair mortar**

**1.00 Epoxy Repairs to Concrete**

Where so designated on the drawings, patch repairs of concrete shall be carried out using an epoxy mortar after preparation including priming of the concrete and any steel reinforcement.

**1.10 Surface Preparation**

 All surfaces to which the repair material is to be applied shall be, clean, sound and free from loose material and contamination such as oil and grease.

 Correct priming of the prepared concrete is necessary to ensure maximum adhesion using a suitable epoxy resin bonding material.

 Priming of any exposed steel reinforcement should be done using a zinc-rich primer.

**1.20 Epoxy repair mortar**

 The epoxy repair mortar is to be a three component thixotropic epoxy system that cures to form high strength, chemical resistant repair to horizontal and vertical concrete surfaces.

 The repair mortar is to be applied by hand / trowel in thickness 5mm to 100mm.

 The repair mortar shall be resistant for 28 days @ 23OC to 25% Sulphuric acid; 25% Nitric acid; 25% Phosphoric acid and 25% Hydrochloric acid.

 The repair mortar shall exhibit the following characteristics @20OC:

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| **Compressive strength:** | >45 MPa @ 7 days |
| **Pot life:**  | 45 minutes |
| **Initial hardness:** | 4 hours |
| **Full cure (chemical resistant):** | 7 days |

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1.21 The repair mortar shall be applied in accordance with the manufacturer’s product data sheet.

**1.30** **Fosroc Nitomortar EL-HB** with **Nitoprime Zincrich (reinforcement primer)** and **Nitobond EP (concrete primer)** meets the performance criteria and is approved.

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