Patchroc® GP

**Rapid set concrete floor/pavement patch repair mortar (15mm – 75mm depth)**

**1.00 Rapid set concrete pavement patch repair mortar**

Where so designated on the drawings, concrete pavement is to be repaired using a rapid setting, cementitious repair mortar .

**1.10 Surface Preparation**

 Remove all loose materials and any contaminating foreign matter from the repair location.

 Saw cut or cut back the extremities of the repair locations to a depth of at least 5mm, to avoid feather edging and to provide a square edge. Break out the complete repair area to a minimum depth of 15mm up to the sawn edge.

**1.11 Steel Reinforcement Primer**

 Where reinforcement has been exposed by the preparation process, a single component zinc-rich primer is to be applied. The primer shall be fully compatible with the repair patch material system of concrete repair.

**1.12 Substrate Priming / Bonding Agent**

 The substrate should be thoroughly soaked with clean water and any excess water removed prior to applying one coat of a fully compatible repair mortar primer, scrubbing it well into the substrate surface. The repair patch mortar is to be applied as soon as the primer becomes tacky.

 (\*if primer is allowed to dry before repair mortar placement, then the primer must be re-applied).

 Where a substrate /repair primer is required or where the substrate is wet or likely to remain permanently damp, a repair mortar compatible epoxy bonding agent must be used. (\* as above)

**1.20 Patch Repair Mortar**

 The patch repair material shall be a single component, fast setting, cementitious mortar, suitable for patch repairs of application thicknesses from 15mm to 75mm, for internal and external areas.

The repair material is to be non-hazardous in accordance with Australian Inventory of Industrial Chemicals containing <0.1% RCS (Respirable Crystalline Silica).

 The patch repair mortar shall exhibit the following typical properties:

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| **Compressive strength:**(Trowellable consistency) | 27MPa @ 2 hours / 23OC |
| 43MPa @ 1 day / 23OC |
| 53MPa @ 7 days / 23OC |
| 60MPa @ 28 days / 23OC |
| **Setting time:** | Initial: 35 – 50 mins @ 23oC |
| Final: 45 – 60 mins @ 23oC |
| **Trafficable time @ 23OC:**  | 2 hours - pedestrian |
| 4 hours - vehicle |

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

**1.30** **Fosroc Patchroc GP** with **Nitoprime Zincrich** and **Nitoprime 330** meets the performance criteria and is approved.

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