Renderoc® Rapid

**Rapid set concrete floor/pavement patch repair mortar (25mm – 250mm 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, shrinkage compensated, cementitious repair mortar capable of accepting traffic in 1 to 2 hours.

**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 25mm, to avoid feather edging and to provide a square edge. Break out the complete repair area to a minimum depth of 25mm 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**

 The substrate should be thoroughly soaked with clean water and any excess water removed prior to applying the repair mortar.

**1.20 Patch Repair Mortar**

 The repair patch material shall be a single component, cement-based blend of powders to which

 only the site-addition of clean water shall be permitted.

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

 The repair patch mortar shall exhibit the following typical properties:

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| **Compressive strength (AS1478.2-2005 Pourable consistency):** | 20MPa @ 1 hour / 23oC |
| 25MPa @ 2 hours / 23oC |
| 30MPa @ 4 hours / 23oC |
| 35MPa @ 1 day / 23oC |
| 55 MPa @ 28 days / 23OC |
| **Shrinkage (AS1012.13- 1992):** | < 600 microstrain @ 28 days |
| **Setting time:** | Initial: 20 – 25 mins @ 23oC |
| Final: 25 – 35 mins @ 23oC |
| **Trafficable time @ 23OC:**  | 1 hour - pedestrian |
| 2 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 Renderoc Rapid** with **Nitoprime Zincrich** meets the performance criteria and is approved.

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