Renderoc® BB

**Low shrinkage mortar for the installation of elastomeric bridge bearings**

**1.00 Preparation**

Mark out the mortar pad perimeter ensuring that the mortar pad extends beyond the edge of the bearing by a minimum of 50mm, as per the requirements of RTA B284 for elastomeric bearings held in place by friction alone.

**1.10 Surface Preparation**

 Saw cut the marked-out mortar pad perimeter to a depth of 5 to 10mm into the substrate and lightly scabble or needle gun the substrate within the perimeter. The prepared surface should then be cleaned by way of a high-pressure water jet to remove any dust from the surface.

**1.12 Substrate Priming**

 The substrate should be thoroughly soaked with clean water for not less than 3 hours then any excess water removed prior to applying the bearing installation mortar.

 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 may be required.

**1.20 Bearing Installation Mortar**

 The bridge bearing installation mortar shall be a single component, cement-based blend of powders to which only the site-addition of clean water shall be permitted. It shall be manufactured to achieve compliance with RTA B80 table B80.3 and table B80.7

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

 The mortar shall exhibit the following typical properties:

|  |  |
| --- | --- |
| **Compressive strength:****(AS1478.2-2005 Flowable consistency)** | 21MPa @ 1 day / 23OC |
| 47MPa @ 7 days / 23OC |
| 56MPa @ 28 days / 23OC |
| **Setting time:** | Initial: 3 hours @ 23oC |
| Final: 5 hours @ 23oC |
| **Drying shrinkage:** **(AS1012.13 Flowable consistency)** | < 500 microstrain @ 21 days |
| < 600 microstrain @ 28 days |

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

**1.30** **Fosroc Renderoc BB** meets the performance criteria and is approved.

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