Renderoc® CAC

**Biogenic corrosion resistant calcium aluminate cement (CAC) mortar**

**1.00 Preparation**

Prepare the surface to be sprayed to expose 50% diameter of the largest aggregate or a CSP of greater than 8.

**1.10 Surface Preparation**

The substrate should be saturated with clean water to achieve an SSD (saturated surface dry) state immediately prior to application of the CAC mortar.

**1.20 Biogenic Corrosion Resistant Mortar**

The mortar shall be a single component, blend of calcium aluminate cement and calcium aluminate aggregates to which only the site-addition of clean water shall be permitted.

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

The mortar shall have the following composition:

|  |  |
| --- | --- |
| Constituent | Typical % by weight |
| Al2O3 | 39 - 44 |
| CaO | 35 - 40 |
| SiO2 | 2 - 7 |
| Fe2O3 | 9 - 15 |

The mortar shall exhibit the following typical properties:

|  |  |
| --- | --- |
| **Compressive strength:**  **(AS1478.2-2005)** | >20MPa @ 7 hours |
| >40MPa @ 24 hours |
| >65MPa @ 28 days |
| **Modulus of Rupture (Flexural Strength) (AS 1012.11 - 2000):** | >4.5MPa @ 24 hours |
| >7.5MPa @ 28 days |
| **Indirect Tensile strength (AS 1012.10 - 2000):** | >3.5MPa @ 28 days |
| **Dimensional Change (Drying shrinkage) (AS 1478.2 - 2005):** | <700 microstrain @ 56 days |

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1.21 The mortar shall be applied by wet spray or dry spray process or hand trowel applied and cured in accordance with the manufacturer’s product data sheet.

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

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