**AERO ROAD REPAIR**

**Rapid Setting Road Repair Mortar**

**Descrption :**

**AERO ROAD REPAIR** is a fast-setting, rapid-hardening mortar designed to repair concrete highways, bridge, decks, concrete parking lots and concrete floors.

**USES :**

**AERO ROAD REPAIR** can be used to replace sections of streets or highways, runways or taxiways of airports and other applications where quick return to usage is desired. In most cases, traffic can be resumed in less than 1 hour after patching**. AERO ROAD** **REPAIR** is made from specially blended cement with carefully graded aggregates to provide a permanent patch.

**INSTALLATION**

**SURFACE PREPARATION**

• Remove all spalled areas and areas of unsound concrete and patching

• The hole should have a vertical edge of 1/2" (12.7 mm) or more, formed by use of a pneumatic jack hammer or sawing. Holes should be chipped out to create a new, sound substrate

• After the chipping process is completed, the repair area must be cleaned by water blasting or other suitable method

• Dampen holes with clean water before patching. No puddles of water should be left in the hole

**MIXING**

* Use approximately 4 ltr. of potable water per 25 kg bag; Do not exceed 4.5 ltr. of water.
* All tools and equipment used in the mixing and finishing process should be clean
* Place water in mixer. While concrete or mortar mixer is running, add contents of bag. Mix 2 to 3 minutes.
* Place in a wheelbarrow or other transporting vehicle. Place the mixture immediately after the mixing is completed

Note - Working time is 20 - 25 minutes and will fluctuate: shorter time during severe hot weather and longer time during cold weather.

**TYPICAL PROPERTIES**

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| **Sr. No.** | **Properties** | **Specification** |
| **1.** | Physical Appearance | Grey Powder |
| **1.** | Setting Time | Initial – 20-25 mins.Final – 40-50 mins. |
| **2.** | Compressive Strength | 1 Day – 12.0 N/mm27 Days – 35 N/mm228 Days – 65 N/mm2 |
| **3.** | Flexural Steength | 28 Days – 7 N/mm2 |

**PLACING**

* The hole should be filled by placing material full depth, from one end to the other to eliminate part depth lifts between batches
* Consolidate the material in the hole by vibration, hand tamping or chopping with a shovel. This is particularly important around the edges
* Screed and finish patches with hand tools to create a surface finish equivalent to the existing slab finish

**CURING**

Curing is not required. Traffic can be allowed over the patch in approximately 1 hour if the temperature is 25 0C or above. Cure under ambient conditions. Do not moist cure.

**AGGREGATE EXTENSION**

For deep patches, **AERO ROAD REPAIR** may be extended with up to 12.5 kg 10 mm coarse aggregate per 25 kg bag. Water content must be adjusted depending on the moisture content of the aggregate.

**Consumption :**

 Approximately 10kg/m2 for 5mm thick repair.

Consumption rates are offered for guideline purposes only and are quoted for smooth rendered surfaces. Actual rates are the responsibility of the applicator. Project specifications should be referred to for specific rates.

**SHELF LIFE & STORAGE**

**AERO ROAD REPAIR** has a shelf life of 6 months from date of manufacture when kept at a temperature between 5 0C to 45 0C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

**Quality Assurance**

**AERO CONCHEM LLP** is a firm of Assessed Capability. The company’s quality system conforms to ISO 9001:2015.

**HEALTH & SAFETY**

**AERO ROAD REPAIR** is no-toxic and non-flammable. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.