



# HARD MASTER™ W675

## HIGH PERFORMANCE SMOOTH REPAIR MORTAR



### BEDDING MORTAR & BACKFILL CONCRETE:

HardMaster W675 is a high-performance, fast-setting, multipurpose concrete repair material and non-shrink grout that is ideal where rapid strength, durability and low shrinkage are desired. Can be used indoors and outdoors, also in wet areas, applied using similar methods to cement based materials. Use HardMaster W675 for general and structural concrete repair, doweling and anchoring, industrial grouting, formed work, vertical and horizontal trowel applications. HardMaster W675 is ideal for airport, highway, industrial and marine applications.

### PRODUCT FEATURES:

- High strength
- Fast setting in 15 minutes
- Excellent bond strength

### CUSTOMER BENEFITS:

- Long lasting
- Quick return to service
- Easy use with high performance

### COLOURS AVAILABLE:



Grey



### RECOMMENDED USE:



Highways



Car Parks



Facilities



Utilities

### APPLICATION METHOD:



Trowel

**BECAUSE ROADS MATTER™**

**COMPOSITION:**

**Magma HardMaster W675** is a high-performance blend of rapid setting cement and special mineral aggregates. **Magma HardMaster W675** is non-metallic, without chlorides. **Magma HardMaster W675** is similar in appearance to Portland cement repair materials and may be applied using similar methods.

**PREPARATION OF SUB-BASE:**

For repairs, application surface shall be clean, sound and free from any materials that may inhibit bond, such as oil, asphalt, curing compound, acid, dirt and loose debris. Roughen surface and remove all unsound material. Apply **Magma HardMaster W675** to a surface that is thoroughly saturated with no standing water.

**MIXING:**

The use of an **OX Pro Rubber Blade Mixing Paddle** coupled with a twin handled mixing unit is recommended. Organize work so that all personnel and equipment / tools are in place before mixing.

**Magma HardMaster W675** is mixed with 560ml to 940ml clean water per 5kg bucket. Use less water to achieve higher strength values.

**DO NOT** exceed the maximum water admixture of 940ml per 5kg bucket. Place water into the mixing container and add **Magma HardMaster W675** while the stirrer is running. To achieve a uniform consistency, mix for 1 to 3 minutes.

**DO NOT** re-temper mixed material.

**APPLICATION:**

Apply **Magma HardMaster W675** using traditional construction methods in thicknesses from featheredge to 100mm. For heavy loads and vehicle traffic, minimum thickness will vary. Not intended for high heat applications above 150°C. For deeper sections, bulk up mix with clean 10mm aggregate up to 30% by weight. For overlay applications, a minimum of one test section should be prepared to evaluate the suitability of the materials and procedures.

Do not apply **Magma HardMaster W675** at sub-base or environmental temperature below +5°C. Temperatures above 20°C will reduce the working time.

Recommended ambient application temperature is 5°C to 25°C.

**CURING:**

Begin water curing as soon as the surface has lost its moist sheen. Keep exposed surfaces wet for a minimum of 1 hour until the product has achieved sufficient strength. When experiencing extended setting times, due to cold temperature or the use of a retarder, longer cure times may be required.

**TECHNICAL:**

**PERFORMANCE DATA:**

Layer thickness	0 - 100 mm
Approx. Coverage	0.05m <sup>2</sup> @ 50mm / 5kg kit
Initial set	after 15 min.
Ready for traffic	after 60 min.
<b>COMPRESSIVE STRENGTH</b>	
after 60 min.	> 20,0 N/mm
after 180 min.	> 31,0 N/mm
after 7 days	> 41,0 N/mm
after 28 days	> 62,0 N/mm
Modulus of elasticity	38.240 N/mm
Sulfate resistance	yes
Frost/deicer resistance	yes
Penetration behaviour	yes
Packaging	5kg

Technical Data @ +20°C and 65% relative air humidity

**STORAGE AND PACKAGING:**

Storage area should be dry, protected from direct sunlight and extremes of temperature - i.e. between 5°C & 20°C.

**SHELF LIFE:**

12 months when stored under cover, in original unopened containers, in accordance with Storage Condition guidelines listed above.

**SIZES AVAILABLE:**

5kg kit in a bucket.

**HEALTH AND SAFETY:**

These products contain cement and have an alkaline reaction with moisture/water. Therefore protect hands and eyes. In case of contact with eyes consult a doctor.

Familiarise yourself with the material safety data sheets before using this product. If you need a copy please call our technical team on 023 9220 0606.