



# HARD MASTER™ W910

## 10MM RAPID STRENGTH CONCRETE



### RAPID STRENGTH CONCRETE:

Magma HardMaster W910 is a 10mm rapid strength concrete ideal for any application that requires early strength gain and a quick return to service, with a traffic time of just 90 minutes. Typical applications are Ironwork backfilling, haunching and post installations. HardMaster W910 is a pre-blended mix which is easy to use and can be used either as a trowelable or flowable mix, available in 20kg weatherproof bags.

### PRODUCT FEATURES:

- Achieves 20N/mm<sup>2</sup> in 90 minutes
- No separate cement sachet
- Pre-blended, one component product
- Waterproof packaging

### CUSTOMER BENEFITS:

- Quick return to service
- Quick & easy to use, just add water and mix
- Removes guesswork with part mixes
- Reduced wastage from material going hard in bags

### COLOURS AVAILABLE:



Grey



### RECOMMENDED USE:



Utilities



Highways

### APPLICATION METHOD:



Trowel



Flowable

BECAUSE ROADS MATTER™

**PREPARATION OF SUB-BASE:**

All application substrates must be sound, clean and free from dust, dirt, debris, oil, grease and other contaminants. Proper surface preparation is vital to ensure the successful application and durable performance of the concrete. All substrates should be pre-wetted with water prior to the application of the concrete, however any standing water should be removed.

**MIXING INSTRUCTIONS:**

For best results **HardMaster W910** should be mixed using a steel **Meon OX Pro Mixing Paddle** coupled with a twin handled mixing unit. Alternatively, the product can be mixed by hand. Mix each 20kg unit with 1.8 – 2.25 litres of clean water (which complies with **BS EN 1008 - water for concrete**). If a trowelable mix is required, add 1.8 litres initially and carefully add more water if required. If too much water is added, the mix will become flowable. Pre-measure the required volume of water into a clean mixing vessel and steadily add the powder to the water. The product should be mixed for 2-3 minutes until a smooth, homogenous concrete consistency is achieved.

Due to the rapid setting nature of **HardMaster W910**, only ever mix a quantity of material that can be used within 5 minutes of the end of mixing.

**DO NOT** re-mix or add extra water to extend the working time of the material.

**NOTE:** Water consumption can be impacted by calcium content of water.

**APPLICATION:**

**HardMaster W910** Concrete should be applied at a thickness of 30mm - 250mm in a single pass. If thicker sections are required, this can be achieved using the layer-on-layer method. **HardMaster W910** should be placed or poured on the prewetted application area without delay after mixing. Use a trowel to move the material into place at the desired finish. The material should be brought to a height of 40mm below the final surface.

Once the concrete has reached initial set, the reinstatement process can continue. Recommended ambient application temperature is 5°C to 25°C.

**AFTERCARE AND MAINTENANCE:**

Tools and equipment can easily be cleaned using water and should be carried out as soon as possible after application.

**STORAGE CONDITIONS:**

Storage area should be dry, protected from direct sunlight and extremes of temperature - i.e. between 5°C & 30°C.

**SHELF LIFE:**

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

**SIZES AVAILABLE:**

Supplied in 20kg weatherproof bags, 50 per pallet.

**TECHNICAL:**

PERFORMANCE DATA	
Water Addition (per 20kg)	1.8 - 2.25 litres
Shrinkage	Less than 0.001%
Density	2200 - 2300 kg/m <sup>3</sup>
Yield (per 20kg)	9.6 litres
COMPRESSIVE STRENGTH	
60 minutes	15 N/mm <sup>2</sup>
90 minutes	20 N/mm <sup>2</sup>
2 hours	23 N/mm <sup>2</sup>
1 days	31 N/mm <sup>2</sup>
7 days	42 N/mm <sup>2</sup>
28 days	50 N/mm <sup>2</sup>
CURING TIMES	
Workability	5 - 10 minutes
Initial Set	< 20 minutes
Traffic Time	90 minutes
The above figures are derived from laboratory testing at 20°C and 65% relative humidity	

**HEALTH AND SAFETY:**

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

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**.