



# HARDMASTER™ W620

## CD534 POLYMER MODIFIED BEDDING MORTAR



### CD534 BEDDING MORTAR:

Magma HardMaster W620 is a high strength bedding mortar which provides exceptional performance in wet conditions. It has a guaranteed cure as it is a two component product and achieves a compressive strength of 40N/mm<sup>2</sup> in 3 hours. HardMaster W620 is designed for the bedding of all access covers. Compatible for use with concrete, brick and stone substrates. HardMaster W620 Bedding Mortar conforms to CD534. The kit includes a red dye sachet which can be added to easily identify the composition of work carried out.

### PRODUCT FEATURES:

- Complies with CD534 requirements
- Controlled quick setting
- Fibre reinforced

### CUSTOMER BENEFITS:

- Guaranteed performance
- Consistent use
- High final strength

### COLOURS AVAILABLE:



Grey



### RECOMMENDED USE:



Highways



Car Parks



Facilities



Utilities

### APPLICATION METHOD:



Trowel

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 W620** should be mixed using a steel **Meon OX Pro Mixing Paddle** coupled with a twin handled mixing unit, or a pan type mixer. Pour the activator into a suitable mixing container, reserving approx. 200ml, then slowly add the contents of the 18kg bag whilst mixing thoroughly. Add the full sachet of red dye at this point if required. The product should be mixed for 2-3 minutes until a smooth, homogenous concrete consistency is achieved. This may require adding the reserved activator. Due to the quick setting nature of **HardMaster W620**, only ever mix a quantity of material that can be used and placed within 15 minutes of the end of mixing.

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

**APPLICATION:**

**HardMaster W620** should be applied at a thickness of 10mm - 50mm in a single pass. If thicker sections are required, this can be achieved using the layer-on-layer method.

**HardMaster W620** should be placed on the pre-wetted application area without delay after mixing. Apply an even bed thickness to the whole application area ensuring a nominal 5-10mm excess thickness is present to allow for adjustment. Point up the inner and outer exposed surfaces ensuring all voids are filled.

Once the bedding mortar has reached initial set, a backfill concrete such as **Magma HardMaster W610 Trowelable** or **Magma HardMaster W615 Flowable** can be mixed and placed.

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

**SHELF LIFE:**

Minimum 6 months when stored under cover, in original unopened containers, in accordance with Storage Condition guidelines listed above. Avoid exposure to water, frost or heat - high temperatures and high humidity will lead to a reduced shelf life.

**SIZES AVAILABLE:**

18kg bag and 2.5ltr liquid activator.

**TECHNICAL:**

PERFORMANCE DATA	
Activator Addition (per 18kg)	2.5 litres
Workability	15 minutes
Set Time	< 40 minutes
Shrinkage	Less than 0.001%
Density	2200 kg/m <sup>3</sup>
Tensile Strength (3 hrs)	5 N/mm <sup>2</sup>
Tensile Adhesion Strength	> 3 N/mm <sup>2</sup> to concrete
COMPRESSIVE STRENGTH	
2 hours	35 N/mm <sup>2</sup>
3 hours	40 N/mm <sup>2</sup>
1 day	50 N/mm <sup>2</sup>
28 days	65 N/mm <sup>2</sup>
FLEXURAL STRENGTH	
2 hours	8 N/mm <sup>2</sup>
3 hours	9 N/mm <sup>2</sup>
1 day	10 N/mm <sup>2</sup>
28 days	12 N/mm <sup>2</sup>
The above figures are derived from laboratory testing at 20°C and 65% relative humidity	

**QUALITY CONTROL:**

Tested and packaged to quality control procedure in accordance with **BS EN ISO 9001**.

**COVERAGE:**

(120mm x 40mm bed): 2 linear metres

**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 using cementitious products. 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**.