



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/mm² 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.

PRODUCT FEATURES:

- Complies with CD534 requirements
- Controlled quick setting
- Superior flexural and tensile properties

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:

Pour approximately 90% of the liquid into a clean bucket, ensuring the sides of the bucket are wetted. Gradually add the powder to the polymer liquid in stages (half, then quarter, then quarter), mixing thoroughly for 2 minutes to activate the polymers within the mix. If required, add the remaining liquid to achieve the desired consistency. Once fully mixed, empty the mortar onto a mixing mat to aid placement. Mixing and application should be carried out within a recommended ambient temperature range of 5°C to 25°C.

APPLICATION:

Magma HardMaster W620 should be applied at a thickness of 10-30mm in a single pass. For thicker sections, a layer-on-layer method may be used. Place the mortar onto the pre-wetted application area without delay after mixing, applying an even bed thickness across the entire area and allowing a nominal 5-10mm excess to enable final adjustment.

The mortar should be placed into the chamber by hand in sausage-like clumps, then the frame positioned and set level with the road surface in a controlled manner, ensuring sufficient material is present beneath each corner. Once set, point up both the inner and outer exposed surfaces, ensuring all voids are fully filled.

After the bedding mortar has reached initial set, backfilling should be carried out using a suitable flowable mortar such as **Magma HardMaster W615 Flowable**.

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 ³
Tensile Strength (3 hrs)	5 N/mm ²
Tensile Adhesion Strength	> 3 N/mm ² to concrete
COMPRESSIVE STRENGTH	
2 hours	35 N/mm ²
3 hours	40 N/mm ²
1 day	50 N/mm ²
28 days	65 N/mm ²
FLEXURAL STRENGTH	
2 hours	8 N/mm ²
3 hours	9 N/mm ²
1 day	10 N/mm ²
28 days	12 N/mm ²
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**.