

HARDMASTER W621

CD534 FLOWABLE BEDDING CONCRETE




HardMaster W621 is a two component, high performance mortar containing the benefits of resin-based materials with the ease of use of cementitious materials. HardMaster W621 complies with DMRB HD27/04, CD534 and NRA MCDRW Vol 1 Clause 507.17. It is designed for the rapid installation and reinstatement of highway furniture and provides exceptional performance in wet weather conditions. Compatible for use with concrete, brick and stone substrates. The kit includes a red dye sachet which can be added to easily identify the composition of work carried out.

FEATURES AND BENEFITS

- Complies with DMRB HD27/04, CD534 and NRA MCDRW Vol 1 Clause 507.17
- Can be tinted red - easy to identify
- Controlled quick setting
- High final strength
- Self levelling
- Easy to use



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PREPARATION:

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:

For best results HardMaster W621 should be mixed using a steel **Meon OX Pro Mixing Paddle** coupled with a twin handled mixing unit, or a pan type mixer.

Add the contents of the liquid additive container to a suitable mixing vessel, reserving approx. 200ml, and then slowly add the contents of the 18kg bag while mixing thoroughly with a slow speed paddle mixer. Add the full sachet of red dye at this point if required. Only add the remaining additive if required to achieve the desired workability. Extra water should not be added.

HardMaster W621 will start to set within 15 minutes. Do not remix.

APPLICATION:

Pre-level the street furniture and plug any gaps prior to use. Pour the HardMaster W621 to the required depth - between 10-50mm - working in a single direction to avoid air pockets. Due to the rapid setting time, HardMaster W621 should be used without delay. All works must be carried out in line with the recommendations found in the relevant sections of the the Design Manual for Roads and Bridges.

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.

TECHNICAL:

PERFORMANCE DATA:

Activator Addition (per 18kg)	2.5 litres
Workability	15 minutes
Set Time	15 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.

QUALITY CONTROL:

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

COVERAGE: 1m² at 10mm depth

STORAGE AND PACKAGING:

STORAGE CONDITIONS:

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

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**.

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