

# HARDMASTER W611

## 40N BACKFILL CONCRETE



HardMaster W611 Concrete is a high performance quick setting backfill concrete. It's quick set and early strength, reduces construction and road closure times, making it ideal for both planned and emergency repairs. Typical applications include the backfill of carriageway ironwork, post and barrier erection. HardMaster W611 has been independently tested by a UKAS Laboratory for the compliance to Department of Transport HD 27/04 Design Manual for Roads and Bridges Vol 7 Sec 2 Clause 3.11.

### FEATURES AND BENEFITS


- Easy to use, pre-blended, one component product - just add water and mix
- 40N final strength - for high impact applications
- Fast setting - reduced road closure time
- Shrinkage compensated
- Weather resistant packaging



Grey



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## PREPARATION:

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 W611 should be mixed using a steel **Meon OX Pro Mixing Paddle** coupled with a twin handled mixing unit, or a pan type mixer.

Mix each 25kg unit with 3.0 - 3.5 litres of clean water (which complies with BS EN 1008 - water for concrete). 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.

**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.

## APPLICATION:

HardMaster W611 can be placed at a thickness of 10mm - 300mm in a single pass. If thicker sections are required, this can be achieved using the layer-on-layer method.

HardMaster W611 should be placed on the pre-wetted application area without delay after mixing. When backfilling around carriageway ironwork or completing patch repairs ensure the material is tamped down and well compacted as soon as possible after placing. HardMaster W611 should be used to encase the flange of any ironwork and then be brought to a height 40-50mm below the required surface of the carriageway or footpath. HardMaster W611 can be finished by floating using a trowel or similar.

Once the HardMaster W611 has reached initial set, the reinstatement process can then be continued. For optimum results, use **Meon BituSeal**, bitumen edge sealer to seal any vertical edges, then apply and compact **Meon PatchMaster** to the finished level of the ironwork. **Meon ThermaBand** can then be applied to the surface joints to prevent future cracking. (See corresponding TDS Sheets for more information).

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:

|                                  |                              |
|----------------------------------|------------------------------|
| <b>Water Addition (per 25kg)</b> | 3.0 - 3.5 litres             |
| <b>Workability</b>               | 5 - 10 minutes               |
| <b>Set Time</b>                  | < 20 minutes                 |
| <b>Shrinkage</b>                 | Less than 0.001%             |
| <b>Density</b>                   | 2200 - 2300kg/m <sup>3</sup> |
| <b>Yield (per 25kg)</b>          | 12.5 litres                  |

### COMPRESSIVE

|                |                        |
|----------------|------------------------|
| <b>1 day</b>   | 18.0 N/mm <sup>2</sup> |
| <b>7 days</b>  | 32.0 N/mm <sup>2</sup> |
| <b>28 days</b> | 42.0 N/mm <sup>2</sup> |

The above figures are derived from laboratory testing at 20°C and at a WSR of 0.11.

### QUALITY CONTROL:

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

## 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 & 20°C.

### SHELF LIFE:

12 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:

25kg plastic bags or buckets.

## 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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