

HARDMASTER W672

SURFACE REINSTATEMENT CONCRETE



HardMaster W672 is a fibre reinforced, non-shrink, rapid setting concrete designed for surface reinstatement around street ironwork and general reinstatement in concrete roads, drives and surfaces. Typical applications include the filling of 'picture frames', concrete road and path repairs, and surface reprofiling. HardMaster W672 is perfect for any application that requires high early strength gain and a quick return to service time. It's rapid set and high early strength development help reduce construction and road closure times, making it ideal for both planned and emergency repairs. HardMaster W672 is compatible for use with concrete, brick and stone substrates.

FEATURES AND BENEFITS


- Ready to receive traffic after just 90 minutes
- Early strength gain
- Fibre reinforced
- Easy to use, pre-blended, one component product - just add water and mix
- Excellent bond strength
- Shrinkage compensated
- High final strength
- Smooth trowelable consistency



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 W672 should be mixed using a mechanical mixer such as a forced-action high shear mixer or a slow-speed drill and paddle mixer. Alternatively, the product can be mixed by hand using a shovel.

Mix each 25kg unit with 2.5 – 3.0 litres of cool, clean water. Pre-measure the required volume of water into a clean mixing vessel and steadily add the powder to the water, or add the water into the powder if using buckets. The product should be mixed for 2-3 minutes until a smooth, homogeneous consistency is achieved.

Due to the rapid setting nature of HardMaster W672, only ever mix a quantity of material that can be used and placed within 5 minutes of the end of mixing.

Never remix or add extra water to extend the working time of the material.

APPLICATION:

HardMaster W672 should be applied at a thickness of 10mm - 100mm in a single pass. If thicker sections are required this can be achieved using the layer-on-layer method.

HardMaster W672 should be placed on the pre-wetted application area without delay after mixing. Ensure the material is tamped down and well compacted as soon as possible after placing.

HardMaster W672 can be finished by floating using a trowel or similar.

Recommended ambient application temperature is 5°C to 25°C.

AFTERCARE & MAINTENANCE:

Tools and equipment can be cleaned easily with water. Cleaning of tools and equipment should be carried out as soon as is practicable well away from the application area.

TECHNICAL:

PERFORMANCE DATA:

Water Addition (per 25kg)	2.5 to 3.0 litres
Workability	10-20 minutes
Set Time	<40 minutes
Shrinkage	Less than 0.001%
Density	2250-2300 kg/m ³
Yield (per 25kg)	12.0 litres

COMPRESSIVE STRENGTH

after 60 minutes	10.0 N/mm
after 2 hours	18.0 N/mm
after 4 hours	24.0 N/mm
after 1 day	31.0 N/mm
after 7 days	42.0 N/mm
after 28 days	50.0 N/mm

Technical Data @ +20°C and 65% relative air humidity

STORAGE AND PACKAGING:

STORAGE CONDITIONS:

Storage area should be 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.

SIZES AVAILABLE:

Supplied in 25kg bags or 25kg buckets.

HEALTH AND SAFETY:

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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