

QUICKMAST 201

High strength epoxy mortar



TECHNICAL DATA SHEET PUBLISHED APRIL 2011

PRODUCT FEATURES

Quickmast 201 is a three component solvent-free, high strength epoxy mortar designed principally for use in construction and renovation work. The graded filler system allows easy placing and compaction with negligible shrinkage. When finished correctly will provide an impermeable layer with good resistance to abrasion, weathering and chemical attack. Quickmast 201 is supplied in a grey concrete colour to match existing concrete substrates.

Quickmast 201 applications include repairs to spalled concrete, pre-cast concrete units, slip bricks, kerbstones, expansion joint edges, repairs to damaged floors etc.

MATERIALS SUPPLIED

5Kg and 15Kg pack sizes comprising resin base, hardener and filler component.

SPECIFIED THICKNESS RANGE

4mm – 25mm (maximum refers to one layer at a time to allow full compaction, deeper sections may be applied but built up in successive layers).

STORAGE

Protect from frost and store under dry warehouse conditions at a temperature between 5°C and 30°C.

SHELF LIFE

24 months in unopened, undamaged, sealed containers and stored under good conditions.

YIELD

5kg Pack - 2.5 litres 15kg Pack - 7.5 litres

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

The surface must be structurally sound, free from oil, grease and other forms of contamination. Concrete should be surface dry and suitably prepared either by scabbling or grit blasting to remove any surface laitance. Steel surfaces should be grit blasted to remove all rust and scale (see the **DCP Guide to Surface Preparation** for further details)

TECHNICAL INFORMATION

Compressive Strength at 20°C (N/mm ²)	1 day	70
	3 days	85
	7 days	94
Tensile Strength at 20°C (N/mm ²)	16	
Flexural Strength at 20°C (N/mm ²)	25	
Bond Strength at 20°C (N/mm ²)	> 3.0 (substrate failure)	

PRIMING

Surfaces must be primed with **Quickmast 101** or **Strongcoat Primer** prior to the application of Quickmast 201.

The primer should be applied so that the surface is thoroughly wet, ensuring there is a continuous film of resin over the surface. Particular attention should be paid to cracks. A nominal 500 microns of resin should be applied to exposed reinforcement.

Quickmast 201 should be applied between 15 minutes and 1 hour after application of the primer, whilst the primer is still tacky.

MIXING

Quickmast 201 comprises three components, a Resin, Hardener and Filler which are supplied pre-weighed in the correct proportions. Under no circumstances should part mixing be carried out.

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the Hardener container into the Resin container. Using a mixer attached to a slow speed electric drill, mix for approximately 2 minutes until a uniform consistency is obtained. The Resin mixture should then be transferred to a separate container or forced action mixer such as a cretriangle type mixer, and the Filler gradually added and mixed for a further 2 minutes or until the Filler has thoroughly wetted out and a uniform consistency obtained.

Important: Never mix Quickmast 201 by hand as this could lead to areas of uncured material.

APPLICATION

Quickmast 201 should be applied by first tamping and followed by trowelling before the primer has hardened. The mortar should be applied in successive layers not exceeding 25mm, each layer being well compacted before each application of subsequent material. Where necessary, the mortar is shaped to the required profile e.g. to form a cove and trowelled to a smooth finish. This operation will be aided by lightly wiping the trowel with **Quickmast Solvent**.

If formwork or shuttering is to be used a suitable release agent should be used to prevent Quickmast 201 adhering to it.

WORKING TIME

Quickmast 201 has a working time of approximately 30 minutes at 20°C. Mixed material should not be left standing for any length of time prior to application, as this will considerably reduce its working time.

CLEANING

Clean uncured material with Quickmast Solvent. Cured material can only be removed mechanically.

CURING

Quickmast 201 should be allowed to cure for 18 hours at 20°C before being subjected to foot traffic. At the same temperature, full mechanical and chemical properties are achieved after 7 days (please consult our Technical Department for details of curing times at other temperatures).

WORKING CONDITIONS

Quickmast 201 should not be applied at temperatures below 10°C.

HEALTH AND SAFETY

Please consult the appropriate Material Safety Data Sheet prior to using Quickmast 201.

GENERAL GUIDANCE

This data sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Department.

Please contact our Sales Department to confirm that this Data Sheet is the current Data Sheet.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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