

# QUICKMAST 101

## Epoxy adhesive and protective coating



TECHNICAL DATA SHEET PUBLISHED APRIL 2011

### PRODUCT FEATURES

**Quickmast 101** is a two-pack, general purpose, solvent-free clear epoxy resin adhesive and protective coating. It's high mechanical properties make it ideal for repairing broken concrete sections, as a bonding aid for renders, screeds and fresh concrete to existing concrete, as a primer for epoxy resin products, and to protect concrete surfaces from chemical attack.

Quickmast 101 has good abrasion resistance and is resistant towards many of the chemicals commonly used in an industrial environment (Consult our Technical Department for further details).

### MATERIALS SUPPLIED

1Kg and 5Kg pack sizes comprising resin base and hardener component.

### 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.

### COVERAGE

The coverage obtained will vary depending on the porosity and texture of the surface to which the coating is applied. As a guide, the coverage should be approx. 3 - 5m<sup>2</sup> per Kg when applied to a smooth surface.

### APPLICATION INSTRUCTIONS

#### SURFACE PREPARATION

To obtain a satisfactory bond, the surface must be structurally sound, clean, and free from dust, laitance, oils, paints or other forms of contamination. Grit blasting can be used to remove laitance and surface contamination. (See **DCP Guide to Surface Preparation** for further details).

#### MIXING

Quickmast 101 comprises two components, a Resin and Hardener, 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 power whisk attached to a slow speed electric drill, mix for approximately 2 minutes until a uniform consistency is obtained.

### TECHNICAL INFORMATION

Typical Properties @ 7 Days	
Compressive Strength @ 20°C (N/mm <sup>2</sup> )	99
Tensile Strength @ 20°C (N/mm <sup>2</sup> )	21
Flexural Strength @ 20°C (N/mm <sup>2</sup> )	28
Bond Strength to Concrete @ 20°C (N/mm <sup>2</sup> )	> 3.0 (substrate failure)

### APPLICATION

For bonding concrete sections apply an even coating of Quickmast 101 to both prepared surfaces. Once both surfaces are saturated, bring sections together under high pressure and protect from movement until the product has set. Remove any Quickmast 101 that exudes from the joint. Where the surfaces to be joined are not a tight fit, the mixed resin and hardener can be thickened with a small amount of dry Ordinary Portland Cement to form a light paste.

As a bonding aid for fresh concrete, screeds or renders apply by brush an even coating of Quickmast 101 to the prepared concrete making sure it is brushed well into the surface. Apply the concrete, render or screed approximately 15 minutes after application of the Quickmast 101 when it becomes tacky. If the Quickmast 101 is allowed to become tack-free, a further coat should be applied, failure to do so may result in the bond being impaired.

For protection from chemical attack, two coats should be applied within 24 hours of each other,

### WORKING TIME

Quickmast 101 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 101 should be allowed to cure for 24 hours at 20°C before being subjected to foot traffic. At the same temperature, full mechanical and chemical properties are achieved after 7 days.

At lower temperatures the cure time will be extended (Please consult our Technical Department for details of curing times at other temperatures).

## WORKING CONDITIONS

Quickmast 101 should not be applied at temperatures below 10°C.

## HEALTH AND SAFETY

Please consult the appropriate Material Safety Data Sheet prior to using Quickmast 101.

## 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 consult 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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