



QUICKMAST 102

EPOXY ADHESIVE AND PROTECTIVE COATING

TECHNICAL DATA SHEET
PUBLISHED JANUARY 2007

PRODUCT FEATURES

Quickmast 102 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 and steel surfaces from chemical attack.

Quickmast 102 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).

Quickmast 102 is fast-setting and will cure at temperatures down to 3°C, making it especially useful for work under cold conditions.

MATERIALS SUPPLIED

1Kg pack size 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.

TECHNICAL INFORMATION

Typical Properties @ 7 Days	
Compressive Strength @ 20°C (N/mm ²) BS6319 Part 2: 1983	108
Tensile Strength @ 20°C (N/mm ²) BS6319 Part 7: 1985	25.6
Flexural Strength @ 20°C (N/mm ²) BS6319 Part 3: 1990	67.2
Bond Strength to Concrete @ 20°C (N/mm ²)	> 3.0 (concrete substrate failure)

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 - 5m² 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. Metal surfaces should be thoroughly degreased and prepared to SA 2^{1/2} finish prior to coating. (See Guide to Surface Preparation for further details).

MIXING

Quickmast 102 comprises two components, a **Resin** and **Hardener** that 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. In cold weather, mixing will be aided if the containers are stored in a warm atmosphere before use.

APPLICATION

For bonding concrete sections apply an even coating of Quickmast 102 to both prepared surfaces. Once both surfaces are saturated, bring the two sections together under light pressure and protect from movement until the product has set. Remove any Quickmast 102 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. Care should be taken to avoid excessive thickening, as this will reduce the strength of the cured material.

As a bonding aid for fresh concrete, screeds or renders apply by brush an even coating of Quickmast 102 to the prepared concrete making sure it is brushed well into the surface. Apply the concrete, render or screed approximately 15 to 60 minutes after application of the Quickmast 102 when it becomes tacky. If the Quickmast 102 is allowed to become tack-free, a further coat should be applied, failure to do so may result in the bond being impaired.



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

For crack injection applications, Quickmast 102 can be used in conjunction with injection nipples and **Quickmast 341** epoxy adhesives.

WORKING TIME

Quickmast 102 has a working time of approximately 20 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 102 should be allowed to cure for 24 hours at 15°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 102 should not be applied at temperatures below 3°C.

HEALTH AND SAFETY

Please consult the appropriate Material Safety Data Sheet prior to using Quickmast 102.

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.



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