

# Quickmast 350ML

Solvent free epoxy lining and benching mortar



## Description

Quickmast 350ML is a three component solvent-free lightweight epoxy mortar, designed principally for use with maximum chemical and abrasion resistance for protection of concrete and other substrate in sewage tanks and manholes. The lightweight graded filler system along with thixotropic additives, allows lining for high build applications particularly in vertical and overhead situations.

When used in conjunction with either Strongcoat Primer ML the product provides excellent adhesion to concrete materials. When finished correctly, Quickmast 350ML provides an impermeable layer with good resistance to abrasion, weathering and chemical attack. Quickmast 350ML will cure in damp conditions and has a strength that exceeds normal concrete strength.

Quickmast 350ML is supplied in a grey colour to match existing concrete substrates.

Quickmast 350ML application areas include, lining and benching manholes, sewage tanks, and all similar structures which require impervious mortar or lining to achieve maximum chemical resistance.

## Method of Use

### Surface Preparation

The surface must be structurally sound, free from oil, grease and other forms of contamination. Concrete surface should be 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).

### Priming

Substrates should be primed with Strongcoat Primer ML. The primer should be applied so that the surface is thoroughly wet, ensuring there is a continuous film of resin over the surface. The Quickmast 350ML should be applied whilst the primer is still tacky.

### Mixing

Quickmast 350ML comprises three components, a resin base, hardener and filler which are supplied preweighed

### Technical Properties @ 7 days:

Compressive strength: BS6319, Part 2 : 1983	> 75 MPa
Tensile strength: BS6319, Part 7 : 1985	> 9 MPa
Flexural strength: BS6319, Part 3 : 1990	> 22 MPa
Bond strength to concrete:	> 2.0 MPa (concrete failure)
Pot life:	1 - 2 hr @ 25°C
Mixed density:	1.9 ± 0.1 g/cm <sup>3</sup>

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 creteangle 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.

### Application

The Quickmast 350ML should be applied and well compacted, by steel trowel. The lightweight mortar should be applied in successive layers, each layer being well compacted before each application of subsequent material. If the mortar has been allowed to harden, the surface should be abraded and a further coat of Strongcoat Primer ML applied.

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.

# Quickmast 350ML

## Working Time

Quickmast 350ML has a working time of approximately 90 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.

## Working Conditions

Quickmast 350ML should not be applied at temperatures below 5°C.

## Curing

Quickmast 350ML should be allowed to cure for 24 hours at 20°C. 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).

## Cleaning

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

## Packaging

Quickmast 350ML is available in 16 kg pack size comprising resin base, hardener and filler component.  
Strongcoat Primer ML is available in 5 kg packs comprising resin base and hardener.

## Specified Thickness Range

3 – 12 mm in a single layer.

## Yield

Quickmast 350ML: 3 m<sup>2</sup>/16 kg pack @ 3 mm thick.  
Strongcoat Primer ML: 4.0 – 5.0 m<sup>2</sup>/litre.

## Storage

Protect from frost and store under dry warehouse conditions at temperatures between 5°C and 40°C.

## Shelf Life

Quickmast 350ML has a shelf life of 12 months from date of manufacture if stored in unopened, undamaged, sealed containers and stored under good conditions.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## Cautions

## Health and Safety

Consult the appropriate Material Safety Data Sheet prior to using Quickmast 350ML.

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- ▲ Adhesives.
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- ▲ Structural strengthening.

### 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.