

# MasterSeal<sup>®</sup> M 338

Water based, rigid epoxy coating for waterproofing and protection of concrete elements

## DESCRIPTION

**MasterSeal M 338** is a two component, water borne rigid epoxy coating for the waterproofing and protection of concrete elements.

## TYPICAL APPLICATIONS

- For precast concrete elements.
- For use on horizontal and vertical surfaces.
- For use on concrete and cement mortars.
- Protection of pipes, channels, tanks, sinks etc.
- For use on retaining walls, bridge facings and building structures, among others.
- For protection of tunnels.

Contact your local Master Builders Solutions representative regarding any other application.

## ADVANTAGES

- Water based, environmentally friendly
- Excellent adhesion to concrete even when damp
- Once hardened it is impermeable to water and carbon dioxide
- Good water vapour permeability – low risk of blistering
- Resistant to water, weather and freezing conditions
- Good chemical resistance
- High abrasion resistance
- Easy to apply with airless gun
- Easily cleaned and maintained

## PACKAGING AND COLORS

**MasterSeal M 338** is supplied in 25 kg units and available in Grey.

## TYPICAL PROPERTIES\*

Mixed density @ 25°C	~1256 kg/m <sup>3</sup>
Pot life @ 25°C	>1 h
Mixed viscosity @ 25°C	330 poise
Solid content by weight	53.5%
Touch dry	75 min
Adhesion to concrete 7 days test	>2.0 N/mm <sup>2</sup>
Adhesion to concrete 14 days test	>2.0 N/mm <sup>2</sup>
Abrasion resistance	<3000 mg / 1000 cycles
CO2 diffusion (SD) BS EN 1062-6:2002	>50 m
Capillary Water Absorption BS EN1062-3:2008 W <sub>3</sub> (low)	≤0.1 kg/m <sup>2</sup> ·h <sup>0.5</sup>
Water Vapour Transmission EN1062-1:2004 V <sub>3</sub> (low)	≤15 g/m <sup>2</sup>

## APPLICATION GUIDELINES

### SURFACE PREPARATION

All substrates (new and old) must be structurally sound, dry, free of laitance and loose particles and clean of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants.

The surface should be prepared by shot blasting, high pressure water jetting or other suitable mechanical method. After surface preparation, the bond strength of the substrate should exceed 1.5 N/mm<sup>2</sup> (check with an approved pull-off tester).

The temperature of the substrate must be at least 3°C above the current dew point temperature.

Try to keep the temperature uniform during application and hardening.

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## MIXING

**MasterSeal M 338** is supplied in two separate components, in the correct quantities, ready for use.

Pour Part B into Part A, ensuring to completely empty the pack of Part B, and mix with a slow speed drill and paddle (maximum 400 rpm) until a homogeneous mixture is obtained.

Avoid the inclusion of air. Part mixed are strictly forbidden.

## PLACING / APPLICATION

**MasterSeal M 338** is normally applied in 2-3 coats. The consumption per coat depends on the roughness of the substrate and the type of application.

Dilute the material with 10% clean potable water for the first coat. Subsequent layers need to be applied undiluted, when the first one is touch dry.

**MasterSeal M 338** can be applied using a brush, a short hair roller or an airless spray gun.

For more information, contact Master Builders Solutions Technical Services.

## CLEANING

Tools can be cleaned with water while still wet. Once the material has cured, it can only be removed mechanically.

## COVERAGE / YIELD

Single layer application:

380 - 630 g/m<sup>2</sup>

Double layer application:

1st layer: 380 - 630 g/m<sup>2</sup>

2nd layer: 190 - 340 g/m<sup>2</sup>

## WATCHPOINTS

- Do not apply at substrate temperature below +10°C.
- Do not apply at substrate temperature above 35°C.

## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

- Do not add solvents, sand or other substances that could affect the product properties.

## STORAGE AND SHELF LIFE

Store **MasterSeal M 338** in cool and dry warehouse conditions; protect from freezing. Shelf life is 12 months in unopened original packaging, if stored at above mentioned storage conditions.

## HANDLING AND TRANSPORT

Usual preventive measures for the handling of chemical products should be observed when using this product, for example do not eat, smoke or drink while working and wash hands when taking a break or when the job is completed. For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

Disposal of product and its container should be carried out according to the local legislation in force. Responsibility for this lies with the final owner of the products.

## QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational Health & Safety standards ISO 9001 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

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