

# MasterTop<sup>®</sup> 1110

## Water based epoxy floor and wall coating

### DESCRIPTION

**MasterTop 1110** is a pigmented two component, water dispersible, epoxy resin coating, designed to provide a hygienic seal to protect concrete, timber and asphalt floors as well as walls and ceilings.

### TYPICAL APPLICATIONS

**MasterTop 1110** gives good general protection for concrete surfaces and provides an easily cleaned, non-dusting seamless, floor or wall finish in numerous industrial and commercial applications. The system is free of organic solvents and will not taint foodstuffs.

**MasterTop 1110** can be successfully applied to damp concrete surfaces making it particularly suitable for wet process industries, where a dry substrate may be difficult or impossible to obtain.

**MasterTop 1110** offers good general resistance to a wide range of chemicals and aggressive liquids, but as in all corrosive situations a full analysis of operating and exposure conditions is required followed by reference to chemical resistance data, to ensure product suitability.

**MasterTop 1110** may be applied in the following areas as a substrate seal coat or a wearing surface to epoxy toppings and screeds.

N.B. This gives examples only and does not constitute a full and comprehensive list. For further information on application possibilities contact Master Builders Solutions UAE.

- General food and drink processing plants (walls and floors)
- Hospitals and schools
- Washing and changing room walls
- Pharmaceutical factories
- Industrial and commercial kitchens (walls)

### ADVANTAGES

- Moisture tolerant
- Easy application
- Solvent free, non tainting
- Easily cleaned and maintained
- Dust free surface
- Good bond to dense surfaces

### PACKAGING

**MasterTop 1110** is supplied in 18 L units.

### TYPICAL PROPERTIES\*

Pot Life: 25°C	1 h 30 min
40°C	40 min
Specific gravity: (varies with colour)	1.30 g/cm <sup>3</sup>
Determination of water permeability DIN 1048 Part 5 1991	Nil
Pull Off strength ASTM D7234-12	2.0 N/mm <sup>2</sup> (Failure in concrete substrate)
Abrasion resistance ASTM D4060-14	85 (mg/1000 cycles)
Determination of the slip resistance by means of the pendulum tester BS 7976-2:2002	Dry - low Wet - moderate
Max. service temperature	60°C
Min. recoat time	8 h at 25°C
Max. recoat time	48 h at 25°C
Dry film thickness	75-120 microns per coat

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## APPLICATION GUIDELINES

### SURFACE PREPARATION

**MasterTop 1110** can be applied to a clean, dry or damp but not wet substrate free from dust, dirt, oil, grease and other contaminants. A clean surface will ensure improved adhesion between substrate and coating.

The method of surface preparation will be dictated by the size of area to be treated, location and degree of contamination.

#### New construction

Floors to be coated or overlaid should be at least 28 days old unless water-reducing admixtures have been incorporated. (Consult Master Builders Solutions UAE's Technical Services Department for advice). The removal of laitance and contaminants is best achieved by mechanical means such as vacuum recovery shot blasting.

#### Existing concrete

All contamination must be removed, and a sound clean substrate exposed. Mechanical means of preparation are preferred followed by the removal of dust and other loose debris using an industrial vacuum.

In areas of deeply penetrating contamination by oils, greases and fats, hot compressed air, treatment followed by impregnation with a low viscosity sealer / primer is the recommended treatment.

Prior to application, **MasterTop 1110** should be stored under cover and protected from extremes of temperature which will cause inconsistent workability and cure times of the mixed material. During application in cold conditions, correct conditioning is essential, but application should be halted if the ambient temperature is likely to fall below 10°C. Consideration should be given to the substrate or base slab as it is likely to be considerably colder than the ambient air temperature.

### PRIMING

Substrates that are porous should be primed using **MasterTop 1110** diluted with up to 10% by volume of potable water per pack. Coverage will be approximately 0.1 - 0.125 L/m<sup>2</sup> depending on the porosity of the concrete substrate.

Mixing should be as described below. Application should be by short haired roller or airless spray.

### MIXING

**MasterTop 1110** is a two-component product consisting of base (PTA) and reactor (PTB) components. The base component should be mixed before use to redistribute any settlement that may have occurred during storage.

To the pre-mixed base add the complete contents of the reactor container. Using a slow speed drill with a suitable mixing attachment, mix for 1-2 minutes until a uniform streak free consistency is achieved. **MasterTop 1110** is supplied in preweighed units; at no time should packs / units be split.

### COATING APPLICATION (SMOOTH)

Apply 2 coats of **MasterTop 1110** and allow at least 8 hours but no more than 48 hours between coats.

Apply the second coat at right angles to the first.

**MasterTop 1110** should be allowed to cure for 24 hours prior to receiving light traffic. Full chemical cure is achieved after 7 days. As with all water-based systems, good ventilation and air movement is required to assist curing.

### SLIP RESISTANT COATINGS

Where slip resistance is required

**MasterTop SR 1** is broadcast into the wet base coat, to saturation. Leave overnight to dry then remove excess aggregate by sweeping or vacuuming, before applying the top coats.

When a slip resistant finish is applied in areas that will be wet and / or suffer from chemical spillage, a primer coat must always be applied.

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## COVERAGE / YIELD

Primer Coat (diluted): 0.1 - 0.125 L/m<sup>2</sup>

Smooth Finish:

base coat: 0.125 - 0.2 L/m<sup>2</sup>

top coat: 0.125 - 0.2 L/m<sup>2</sup>

Slip Resistant Finish:

base coat: 0.145 - 0.155 L/m<sup>2</sup>

top coat: 0.175 - 0.2 L/m<sup>2</sup>

**MasterTop SR 1:** approx. 1.5 - 2.0 kg/m<sup>2</sup>

Coverage will vary according to the nature of the substrate.

All calculated usages assume constant thickness on a regular substrate. Failure to achieve the required surface regularity will lead to additional material being used.

## STORAGE AND SHELF LIFE

Store under cover out of direct sunlight and protect from extremes of temperature.

The shelf life is 12 months when stored as above.

Failure to comply with recommended storage conditions may result in premature deterioration of the product or packaging.

For specific storage advice consult Master Builders Solutions UAE's Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product is fully cured or dried). Treat splashes to skin and eyes immediately. If accidentally ingested, seek medical attention. Reseal containers after use. For further information refer to the material safety data sheet.

### Hygiene

From all available information it has been found that **MasterTop 1110** shows a minimal risk of tainting foodstuffs during and after complete cure has taken place.

## 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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### 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.

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