

MasterTop[®] 1120

Epoxy resin coating for concrete floors and walls

DESCRIPTION

MasterTop 1120 is a two-component, solvented, epoxy resin coating specifically designed to provide continuous protection for substrates including concrete and mortar. It may be applied by brush, roller or airless spray.

TYPICAL APPLICATIONS

MasterTop 1120 gives good general protection to concrete surfaces in numerous industrial and commercial applications. Specifically, it can be used to provide a hard wearing, easily cleaned, non-dusting surface.

MasterTop 1120 offers good resistance to a wide range of chemicals and aggressive solutions found in general industry, 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 1120 may be used as a top coat for **MasterTop 1240** floor finishes to provide a brighter more attractive, durable sealed surface.

MasterTop 1120 may be applied in the following areas as a substrate seal coat or a wearing surface to epoxy toppings and screeds.

NB This gives examples only and does not constitute a full and comprehensive list. For further information on application possibilities contact Master Builders Solutions Technical Services department.

- Engineering workshops
- Production and assembly lines
- Aircraft maintenance and assembly
- Warehousing
- Laboratories
- Chemical production and processing
- Battery and pump rooms

ADVANTAGES

- Economical and easily applied
- Good wear and abrasion resistance
- Good general chemical resistance
- Easily cleaned, non dusting surface

PACKAGING AND COLORS

MasterTop 1120 is available in Light Grey, Dusty Grey and Window Grey colors and supplied in 4.5 L kits.

TYPICAL PROPERTIES*

Mixed density @ 25°C		1.3 g/cm ³
Solids content		67% by weight
Max. service temperature		60°C
Pot life	25°C	4 h
	40°C	70 min
Tack free	25°C	30 min
	40°C	15 min
Overcoating times	min.	4 h
	max.	24 h

APPLICATION GUIDELINES

SURFACE PREPARATION

MasterTop 1120 must be applied to a clean, dry substrate free from laitance, dust, dirt, oil, grease and other contaminants. A clean surface will ensure adhesion between substrate and overlay.

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 further advice.

The removal of laitance and contaminants is best achieved by mechanical means such as vacuum recovery shot blasting.

MasterTop[®] 1120

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 method.

Uneven concrete should be levelled to produce a smooth flat surface. For heavy wear situations a suitable repair mortar or epoxy screed from the **MasterEmaco** or **MasterTop** ranges should be used.

PRIMING (IF REQUIRED)

Apply a priming coat consisting of **MasterTop 1120** diluted with 10% (by volume) Xylene, MEK or Acetone thinner, by brush or roller. The primer should be allowed to dry for a minimum of 4 hours and a maximum of 24 hours before overcoating with **MasterTop 1120**.

MIXING

MasterTop 1120 is supplied in two components; (PTA) and (PTB). Thoroughly mix the two components using a slow speed drill with a suitable paddle, making sure to reach the bottom and sides of the can. Continue mixing for 1-2 minutes to produce a fully blended, uniform material. It is important to maintain constant mixing times throughout contracts to ensure consistent colour and to avoid introducing excessive air into the system.

APPLICATION SMOOTH

Apply 2 coats of **MasterTop 1120** allowing a minimum of 4 hours between coats, and a maximum 24 hours. Apply the second coat at right angles to the first.

To ensure specified performance, a minimum temperature of 10°C should be maintained during the curing period, by the use of additional heating if necessary. **MasterTop 1120** should be allowed 24 hours at this temperature prior to receiving light traffic. Full chemical cure is achieved after 7 days.

APPLICATION ANTI-SLIP

To achieve a non-slip surface immediately broadcast **MasterTop SR 1** onto the wet base coat at the rate of 1.5-2.0 kg/m². Excess aggregate to be removed before application of top coat.

NB: Care must be taken when applying anti-slip system in large areas; ensuring that the anti-slip aggregate is scattered immediately into the wet coating.

COVERAGE / YIELD

Smooth finish:

Primer Coat (diluted) optional	8-10 m ² /L/coat
Base Coat	6.5-7 m ² /L
Top Coat	5-6 m ² /L

Anti-slip finish:

Primer Coat (diluted) optional	8-10 m ² /L/coat
Base Coat	5 m ² /L
MasterTop SR 1	1.5-2 kg/m ²
Top Coat	5-6 m ² /L

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.

MasterTop[®] 1120

WATCHPOINTS

MasterTop 1120 is a solvented system. During application, drying and curing, sufficient ventilation must be provided. Do not use where contamination of foodstuffs could occur during initial cure.

STORAGE AND SHELF LIFE

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

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

The shelf life is 12 months when stored as above.

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

HYGIENE

As a solvent-based system it is recommended that **MasterTop 1120 should not** be applied where foodstuffs are being used, processed or stored.

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.

® = Registered trademark of the MBCC Group in many countries.

MBS_CC-UAE/Top_1120_10_94/v3/04_16/v4/12_19

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.

Master Builders Solutions
Construction Chemicals LLC
P.O. Box 37127, Dubai, UAE
Tel: +971 4 8090800
www.master-builders-solutions.com/en-ae



A brand of
MBCC GROUP

Disclaimer: the TUV mark relates to certified management system and not to the product mentioned on this datasheet