BASF
The Chemical Company

MASTERTOP® 1120 T

Epoxy resin coating for concrete floors and walls

Description

MASTERTOP® 1120 T 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.

Primary uses

MASTERTOP® 1120 T 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 T 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 T may be used as a top coat for MASTERTOP® 1240 floor finishes to provide a brighter more attractive, durable sealed surface.

MASTERTOP® 1120 T 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 BASF CC UAE.

- 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

MASTERTOP® 1120 T is supplied as a 4 litre dual unit. SOLVENT NO. 2 is supplied in 20 litre containers.

Hygiene

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

Typical properties

Properties listed are only for guidance and are not a guarantee of performance

Mixed density @ 25°C:		1.3g/cm³
Solids content		64% by weight
Max. service temperature:		60°C
Pot life:	25°C	3 hours
	40°C	70 minutes
Tack free:	25°C	40 minutes
	40°C	20 minutes
Overcoating times:	min.	4 hours
	max.	24 hours

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Application procedure

Preparation:

MASTERTOP® 1120 T 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 BASF 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.

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.

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

Priming (if required):

Apply a priming coat consisting of MASTERTOP® 1120 T diluted with 10% (by volume) SOLVENT NO. 2, 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 T.

Mixing:

MASTERTOP® 1120 T is supplied in two components; Part A and Part B. 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 T 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 T 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® AGGREGATE SRA No. 1 onto the wet base coat at the rate of 1.5-2kg/m². Excess aggregate to be removed before application of top coat.

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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

Consumption:

PRIMER COAT (diluted) optional coat	8 - 10m² / litre /
BASE COAT	6.5 - 7 m² / litre
MASTERTOP® AGGREGATE	
SRA NO. 1	1.5 - 2 kg / m²
TOP COAT	5 - 6 m² / litre

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.

Watchpoints

MASTERTOP® 1120 T 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

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. For specific storage advice consult BASF's Technical Services Department.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's 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, ISO 14001 and OHSAS 18001.

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