



The Chemical Company

Mastertop[®]1110T

Water based epoxy floor and wall coating

Description

Mastertop[®]1110T 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.

Primary uses

Mastertop[®]1110T 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.

Mastertop[®]1110T 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[®]1110T offers good general resistance to various 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[®]1110T may be applied in the following areas as a substrate seal coat or a wearing surface to epoxy toppings and screeds.

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

N.B: This indicates examples only and does not constitute a full and comprehensive list. For further information on application possibilities contact BASF Construction Chemicals SA.

Advantages

- Moisture tolerant
- Easy application
- Easily cleaned and maintained
- Dust free surface
- Good bond to dense surfaces
- Good visual appearance
- Economical

Packaging

Mastertop[®]1110T is supplied in a 5 litre kit.

Colours

Available in standard colours. Contact BASF Construction Chemicals SA.

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Typical properties*

Pot Life: 25°C	40 minutes
40°C	30 minutes
Specific gravity: (varies with colour)	1.36 g/cm ³
Max service temperature:	60°C
Min. recoat time:	6 hours at 25°C
Max. recoat time:	48 hours at 25°C
Dry film thickness:	75 -100 microns per coat

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

Hygiene

From all available information it has been found that Mastertop[®]1110T shows a minimal risk of tainting foodstuffs during and after complete cure has taken place.

Application procedure

Preparation

Mastertop[®]1110T 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 well cured prior to application. (Consult BASF Construction Chemicals SA 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[®]1110T 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.

Mixing

Mastertop[®]1110T is a two component product consisting of base and reactor components. The base component should be mixed before use to redistribute any settlement that may have occurred during storage.



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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 2-3 minutes until a uniform, streak free consistency is achieved. Mastertop[®]1110T is supplied in pre-weighed units; at no time should packs / units be split. Decant mixed material into a suitable container, mix again and proceed with application.

Priming

Substrates that are porous should be primed using Mastertop[®]1110T diluted with up to 10% by volume of potable water per 5 litre pack. Coverage will be approximately 6 -8m² / litre / coat. Mixing should be as described above. Application should be by short haired roller, or airless spray or brush.

Coating application (Smooth)

Apply 2 coats of Mastertop[®]1110T at 5-8m²/ litre / coat and allow at least 6-8 hours, but no more than 48 hours, between coats. Apply the second coat at right angles to the first.

Mastertop[®]1110T 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[®] Aggregate SRA no. 1 is broadcast into the wet base coat, to saturation. Leave to dry overnight 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.

Consumption

Primer coat (diluted)	6 -8 m ² / litre / coat
Base coat	4 -6 m ² / litre
Mastertop [®] Aggregate SRA No 1	1.5 - 2kg / m ²
Top coat	

Coverage

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

Store under cover, out of direct sunlight and protect from extremes of temperatures. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF Construction Chemicals SA's Technical Services Department.



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Safety precautions

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 eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use and dispose of according to local regulations.

Note

For professional use only

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals SA representative. BASF Construction Chemicals SA reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF Construction Chemicals' SA facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001:2000.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

As all BASF's technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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