

MasterTop® 1230 (Formerly known as Mastertop® 1230 Plus)

Self smoothing solvent free, epoxy overlay system for concrete floors

DESCRIPTION

MasterTop® 1230 is a single-coloured, self smoothing, solvent free, epoxy overlay system designed to provide continuous protection for concrete floors at thicknesses of between 2.0-4.0mm. For greater thicknesses contact BASF Technical department. The cured material produces a dense, colourful, glossy surface. The product has also been successfully applied to glazed and terrazzo tiles, steel and timber. For applications other than to concrete, please contact your BASF representative.

PRIMARY USES

MasterTop® 1230 has excellent wear and abrasion resistance to floors subjected to high volume traffic.

The smooth, ultra-dense and high gloss finish is ideal for situations requiring a hygienic, easily cleaned surface.

The product offers good general resistance to a broad spectrum of chemical corrosives, but as in all cases of chemical exposure a full analysis of operating conditions is required, followed by reference to chemical resistance data, to ensure product suitability.

MasterTop® 1230 may be applied in the following industries

NB This gives examples only and does not constitute a full and comprehensive list. For further information on application possibilities contact BASF Construction Chemicals SA.

- Food production and processing
- Beverage production - including soft drink manufacturing.
- Pharmaceutical areas, laboratories, clean rooms
- Engineering workshops and assembly lines
- Showrooms, demonstration areas.
- Industrial and commercial cold kitchens.
- Retail
- Schools, hospitals and hotels

ADVANTAGES

- Excellent wear and abrasion resistance
- Easily applied
- Smooth high gloss finish for hygienic applications
- Easily cleaned
- Good general chemical resistance
- Colourful - improves the working environment

PACKAGING

MasterTop® 1230 is supplied as a 38kg multi component pack (including colour pack).

HYGIENE

Taint tests carried out on **MasterTop® 1230** at the Leatherhead Food Research Association under artificially severe conditions showed that the risks of tainting foodstuffs are minimal during and after complete cure.

TYPICAL PHYSICAL PROPERTIES

Laboratory tests carried out at 25°C	
Pot Life	35 mins
Cure Time	15 hours
Compressive strength (ASTM C579-93)	
3 days	>60 N/mm ²
7 days	>80 N/mm ²
Density of mixed material	1.79kg/m ³
Flexural strength (BS 6319 Part 3)	34 N/mm ²
Tensile strength (BS 6319 Part 7)	19 N/mm ²
Abrasion resistance ASTM D4060 (CS17 Wheel, 1000 cycles with 1kg wt)	Loss of mass 50mg

GUIDE TO APPLICATION

SURFACE PREPARATION:

The preferred method for surface preparation of concrete is captive blasting, which gives a well prepared laitance free, vacuum cleaned surface.

Prior to application **MasterTop® 1230** should be stored under cover in an air-conditioned environment and protected from extremes of temperature which may cause inconsistent workability, finish and cure times for the mixed material.

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SEALING:

Damaged or deeply pitted areas can be repaired and levelled using **MasterTop® 1230** filled out, if required, with additional aggregate.

It is essential to seal the concrete surface prior to the application of **MasterTop® 1230**, to prevent air from the substrate rising through the **MasterTop 1230** while it sets.

Seal the concrete with **MasterTop® 1200** diluted with 0.5 litres Xylene, if required or permissible.

Pour the base and reactor components into a suitable mixing vessel, and add the Xylene. Using a slow speed drill and paddle, mix the components for a minimum of 1 minute, or until all striations have disappeared.

Apply the mixed sealer to the prepared dust free surface with a medium pile roller, at the rate of 6-8m² per litre depending on the surface profile of the concrete.

If the concrete is very absorbent, a single application may not be sufficient and a second coat may be required to ensure the surface is completely sealed.

Allow the sealer to become tack free before applying the **MasterTop® 1230**.

MIXING:

Pour the reactor into the base, add the colour pack and, using a suitable drill and paddle, mix the components together until a uniform colour is achieved. Mixing should be for a minimum of one minute. Pour the mixed components into a suitable mixing vessel of 30 litre capacity.

With the mixer still running, slowly add the **MasterTop® 1230** aggregate and mix for 2 minutes or until the mixture is smooth and free of lumps.

Always keep the mixing time the same for all batches, to ensure a uniform colour when the product is applied.

LAYING:

Pour the mixed material onto the primed and sealed surface, and spread to the required thickness using a pin screed, notched trowel or steel float. As soon as the material has been spread to the required level, the applied material should be rolled with a spiked roller to release entrapped air and remove trowel marks. Rolling should be continued until all air is released and a uniform colour is obtained.

The operator should always wear spiked shoes when using the spiked roller so that he can walk in the wet material. Rolling should cease before the **MasterTop® 1230** begins to gel.

EQUIPMENT

Vacuum recovery shot blasting machine	Scarifier (Errut / Von Arx)
Masking tape / polythene sheets	Grinder
Heaters for cold weather work	Overalls
Trowels	Lighting
Slow speed drill with suitable paddle	Spiked roller
Brushes or short nap hair rollers	Spiked shoes
Industrial vacuum	Pin screed

EQUIPMENT CARE

Remove **MasterTop® 1230** from tools and equipment whilst still wet using Xylene. Cured resin will require mechanical removal.

YIELD

A 38kg unit of **MasterTop® 1230** will yield 21.19 litres of mixed material.

MasterTop® 1230 systems are supplied in preweighed packs which should not be split or divided. It is important to use complete packs.

STORAGE

Shelf life is up to one year when stored under cover, out of direct sunlight and protected from extremes of temperature.



We create chemistry

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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 Construction Chemicals South Africa are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, 2008.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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 BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

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