

# MasterTop<sup>®</sup> 1288

Epoxy based coloured seamless self-smoothing fast return to service flooring system

## DESCRIPTION

**MasterTop 1288** is a seamless, self-smoothing fast return to service flooring system based on an advanced solvent free epoxy resin system and selected graded aggregates. The product can be laid in both a smooth and non-skid surface texture which provides an easily cleaned and hygienic surface with excellent resistance to chemical and mechanical attack.

## RECOMMENDED USES

- Food preparation areas
- Beverage packaging (Beer, wine, juice, soft drink)
- Commercial kitchens, bars restaurants
- Pharmaceutical and cosmetic industries
- Laboratory areas and Medical facilities
- Clean rooms and other sterile areas
- Decontamination areas
- Showrooms and T.V. Studios
- Warehouses and high rack storage
- Laundries
- Other such locations as deemed appropriate

## FEATURES AND BENEFITS

- **Fast return to service** - full mechanical and chemical resistance in 24 hours
- **Pre-packaged and proportioned** – no site errors
- **Excellent durability** - very high mechanical strengths
- **Easily cleaned** - suitable for food preparation areas
- **Seamless and jointless** - no places for bacteria to grow

## PERFORMANCE DATA

Supply form	milky white liquid
Specific gravity	1.06 kg/litre
Viscosity	500 cP approx
pH value	8.0 approx
Storage temperature	sensitive to frost
VOC content Test method: SCAQMD 304-91	63 grams/litre

Supply form	4 part system incl. colour pack and filler
Colours	Refer to <b>BASF</b> representative
Application temperature substrate	15 -35°C
Application temperature material	15 - 30°C
Surface finish grades	Smooth or non-skid
Mixed density P688	1.08kg/l
Mixed density BC388, with 10 kg of filler (MasterTop 1288)	1.68kg/l

## CHEMICAL RESISTANCE

To confirm suitable chemical resistance consult BASF. Pay particular attention to aggressive cleaning cycles and temperature of both chemicals and cleaning regimes.

## APPLICATION

### Surface Preparation

The compressive strength of the substrate shall not be less than 25MPa. The concrete slab in contact with the ground must have a vapour barrier installed in compliance with DIN 18195 or equivalent, a surface profile of CSP 2-3 and be primed with **MasterTop P 688**.

The moisture content of the substrate shall not be higher than 8% throughout. The temperature of the substrate must be at least 3°C above the current dew point temperature.

Surfaces must be structurally sound, clean, and free from loose particles, oil, grease, and all other contaminants. Remove oil, grease, wax, cement laitance, loose particles, mold release agents, curing membranes and other contaminants must be removed from the surface by mechanical means like captive shot blasting or grinding followed by vacuum cleaning.

A prior removal of oil and grease contaminants by using specialist detergents is necessary before any mechanical surface preparation on heavily contaminated substrates.



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After pre-treatment of the substrate, the bond strength of the substrate must be at least 1.5 MPa. For filling up surface irregularities such as blowholes, cracks, honeycombs, etc., consult BASF.

Protect walls and columns against resin splashes using masking tape and plastic sheeting.

## Priming

Prime floor with **MasterTop P 688** at 5m<sup>2</sup> per litre. A porous concrete surface will require 2 coats, which is always recommended for first class finished floor surfaces. Refer separate data sheets for more details. For thin coatings, rollcoats and broadcast systems the **MasterTop P 688** is optional. It is highly recommended that the **MasterTop P 688** is used for smooth coatings where a first class surface is required. The **MasterTop BC 388** can have 5% solvent added (**MasterSeal 955**) if it to be used as a prime coat.

## Mixing

For a project it is advisable to ensure that all **MasterTop X1** Colour Packs are the same batch number to minimise risk of colour variation.

All mixing should be done using a slow speed drill (300-900rpm.) and a spiral mixing paddle. Premix **MasterTop BC 388** part A, add the **MasterTop X1** colour pack, and thoroughly mix to ensure the pigment is uniformly dispersed. Add the **MasterTop BC 388 part B** and continue to mix, slowly add the **MasterTop** filler and mix for a further 3 minutes, occasionally scraping the side and bottom corner of container. Ensure the final mix is lump free, homogeneous and even in colour. Mixing of large mixes (multiples of the above kits) may be done in a forced action mixer. Ensure all containers are completely empty before disposal.

Please note, depending on the system applied the level of addition of **MasterTop** Fillers will vary see the estimating data for details

## Application

Rollcoat: The mixed material should be applied on to the prepared and (if necessary) primed floor using a short knap roller and applied in one direction and then back rolled in the other direction. If a non-skid surface is required, this can be applied either onto the still wet **MasterTop P 688** primer or into the first coat of the **MasterTop BC 388**. A sealer coat of the **MasterTop BC 388** should be applied to the first broadcast layer after the excess sand has been removed.

Light colours may not have the required opacity so the addition of 5Kg of **MasterTop F 11** filler to the final coat will improve the aesthetics.

A second coat of the **MasterTop BC 388** may be required depending on the level of aesthetics required.

1mm to 2.5mm non skid systems can be applied with a suitable notched or flat trowel to a typical thickness of 0.8-1.5mm directly onto the concrete but a prime coat of **MasterTop P 688** should be considered on porous substrates. To achieve a non-skid finish, **MasterTop F5** filler should be broadcast into the first layer of the **MasterTop BC 388**. Allow to cure (overnight) and remove the excess **MasterTop F 5** filler with a vacuum and apply a coat of **MasterTop BC 388** without any added filler. Consumption of the **MasterTop BC 388** product for the final layer is indicated in the estimating section.

**MasterTop P 688** is recommended for the 1.0-2.0mm smooth systems as air escaping from the substrate could create surface defects in the final floor. 1.0mm-2.0mm non skid systems can be applied with a suitable notched or flat trowel to a typical thickness of 1.0-2.0mm The applied **MasterTop BC 388** should be spike rolled to remove the entrapped air. Ensure application is a continuous operation and laying is within 10 minutes of mixing and spike rolled within 5 minutes of laying. It is recommended that a small trial area be undertaken at the start of the work for approval of surface finish.

## POT LIFE

Pot life will vary according to the quantity mixed, ambient and substrate temperatures. The mixed material will have a pot life of approximately 30 minutes at 20°C.

## CURING

Waiting times between **MasterTop P 688** and **MasterTop BC 388** should not be less than 3 hours and not more than 12 hours. Where extended over coating times are envisaged then the **MasterTop P 688** primer must be lightly broadcast with sand. If a non-skid texture is required the **MasterTop BC 388** should be allowed to cure for at least 8 hours prior to application of the sealer coat of **MasterTop BC 388**. **MasterTop 1288** should be protected from vehicle traffic and spillage for at least 24 hours after the final coat. Full chemical and mechanical resistance is obtained after 24 hours. Suitable for foot traffic after 8 hours at 25°C.



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## CLEANING

Uncured material may be removed using **MasterSeal 955**. Cured material may only be removed mechanically.

## PACKAGING

**MasterTop P 688** consists of

Part A	10Kg
Part B	4Kg

**MasterTop BC 388**

Part A 10.5Kg

Part B 3Kg

MasterTop X1 colour 0.6Kg

MasterTop F1 Filler 15Kg

MasterTop F11 Filler 10Kg

MasterTop F5 Filler 25Kg

## SHELF LIFE

MasterTop 1288 components may be stored in tightly sealed original containers for 24 months in controlled environments, between 10°C-35°C.

## PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Safety Data Sheet (SDS) from BASF office or website.



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## ESTIMATING

MasterTop 1288 1.5-2mm smooth				
Primer (recommended)	MasterTop P 688		13L per kit	~5m <sup>2</sup> /L
Optional broadcast sand	MasterTop F 5 Filler			0.8-1 kg/m <sup>2</sup>
Bodycoat normal texture	MasterTop BC 388 and X1 colour pack	MasterTop filler F1 4.2-8.4Kg per kit	11.75-13.65L per kit	At 2mm a kit covers 5.8- 6.8m <sup>2</sup>
Bodycoat fine texture	MasterTop BC 388 and X1 colour pack	MasterTop filler F11 4.2-6.3 kg per kit	11.75-12.80 L per kit	At 2mm a kit covers 5.8- 6.4m <sup>2</sup>

MasterTop 1288 2-2.5mm non skid				
Primer (optional)	MasterTop P 688		13L per kit	~5m <sup>2</sup> /L
Optional broadcast sand	MasterTop F 5 Filler			0.8-1 kg/m <sup>2</sup>
Bodycoat normal texture	MasterTop BC 388 and X1 colour pack	MasterTop filler F1 10-15 Kg per kit	14.65-17.15L per kit	At 2mm a kit covers 7.3- 8.6m <sup>2</sup>
Broadcast sand	MasterTop Filler F5	Broadcast to excess		3-5kg/m <sup>2</sup>
Topcoat	MasterTop BC 388, MasterTop F 11 and X1 colour pack	Add F 11 at a rate of around 5 Kg per kit	12.15 L per kit	At ~0.4mm a kit covers 30m <sup>2</sup>
Topcoat	MasterTop 1260		8L per kit	At ~0.35mm a kit covers 23m <sup>2</sup>

MasterTop 1288 0.3-0.4mm smooth				
Primer (optional)	MasterTop P 688		13L per kit	~5m <sup>2</sup> /L
Topcoat	MasterTop BC 388 and X1 colour pack	If primer omitted two coats of the MasterTop BC 388 would be required with the first thinned 5% with MasterSeal 955.	9.65 L per kit	At 0.25-0.35mm a kit covers 28-38m <sup>2</sup>



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<b>MasterTop 1288 0.4-0.5mm non skid</b>				
Primer (optional)	MasterTop P 688		13L per kit	~5m <sup>2</sup> /L
Bodycoat normal texture	MasterTop BC 388 and X1 colour pack	Broadcast F1 filler and backroll	9.65L per kit	At 0.3-0.4mm a kit covers 24- 32m <sup>2</sup>
Bodycoat fine texture	MasterTop BC 388 and X1 colour pack	Add MasterTop filler F3 to mix and apply	9.8L L per kit	At 0.3-0.4mm a kit covers 24- 32m <sup>2</sup>
Non skid aggregate	MasterTop F 1 filler	0.8-1 kg /m <sup>2</sup>		
Non skid aggregate	MasterTop F 3 filler	100-150 grams per kit		

<b>MasterTop 1288 1mm smooth</b>				
Primer (recommended)	MasterTop P 688		13L per kit	~5m <sup>2</sup> /L
Optional broadcast sand	MasterTop F 5 Filler			0.8-1 kg/m <sup>2</sup>
Bodycoat normal texture	MasterTop BC 388 and X1 colour pack	MasterTop filler F11 5-10Kg per kit	12.15-14.65L per kit	At 1mm a kit covers 12-14m <sup>2</sup>

<b>MasterTop 1288 1mm non skid</b>				
Primer (optional)	MasterTop P 688		13L per kit	~5m <sup>2</sup> /L
Optional broadcast sand	MasterTop F 5 Filler			0.8-1 kg/m <sup>2</sup>
Bodycoat normal texture	MasterTop BC 388 and X1 colour pack	MasterTop filler F11 5-10Kg per kit	12.15-14.65L per kit	At 1mm a kit covers 12-14m <sup>2</sup>
Broadcast sand	MasterTop Filler F5	Broadcast to excess		3-5kg/m <sup>2</sup>
Topcoat fine texture	MasterTop BC 388, MasterTop F 11 and X1 colour pack	Add F 11 at a rate of around 5 Kg per kit	12.15 L per kit	At ~0.4mm a kit covers 30m <sup>2</sup>



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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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