

MASTERTOP[®] 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 smooth impervious surface finish provides an easily cleaned and hygienic surface with excellent resistance to chemical and mechanical attack.

RECOMMENDED FOR

- Pharmaceutical and cosmetic industries
- Laboratory areas
- 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
- Wide colour range
- Excellent durability - very high mechanical strengths
- Easily cleaned and decontaminable
- High resistance to chemical and mechanical attack.
- High level of aesthetics
- Seamless and jointless

PERFORMANCE DATA

Compressive strength, ISO 178	>80MPa at 24hr >100MPa at 7d
Bond strength, ASTM 4541	>1.5MPa (concrete failure)
Abrasion resistance (ASTM D4060, 1000 cycles) (CS17 wheel)	96mg @ 24 Hrs
Impact resistance 45 drops 1 Kg weight 1 meter height	Failure of concrete substrate
Temperature resistance	-20°C to +65°C
Shore D	> 70 at 24 hours
Foot traffic	8 hours at 25°C
Vehicle traffic	24 hours at 25°C

All data measured for BC388 at 23±2°C unless stated otherwise

PROPERTIES

Supply form	4 part system incl. colour pack and filler
Colours	Refer to BASF representative
Application temperature substrate	Min 15°C Max 35°C
Application temperature material	Min 15°C Max 30°C
Surface finish grades	First Class

Mixed density P688	1.08kg/l
Mixed density BC388, with filler (MASTERTOP 1288)	1.68kg/l

CHEMICAL RESISTANCE

To confirm suitable chemical resistance discuss with **BASF** Construction Chemicals representative. 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, and be primed with **MASTERTOP P 688**.

The moisture content of the substrate shall not be higher than 7% 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, mould release agents, curing membranes and other contaminants must be removed from the surface by mechanical means like captive shot blasting, grinding or scarifying 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.

After pre-treatment of the substrate, the bond strength of the substrate must be at least 1.5 N/mm². For filling up surface irregularities such as blowholes, cracks, honeycombs, etc., please consult **BASF** sales representative.

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

Priming

Prime floor with **MASTERTOP P 688** at 5m² per litre (typical). A porous concrete surface will require 2 coats, which is always recommended on first class surface. NOTE: Refer separate data sheets.

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 (600-900rpm.) and a spiral mixing paddle, or pan mixer. Premix **MASTERTOP BC 388 part A** resin, add the **MASTERTOP X1** colour pack, and thoroughly mix to ensure the pigment is uniformly dispersed. Add the **MASTERTOP BC 388 part B** hardener 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



The Chemical Company

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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, Filler may be added within the range of 30% to 70% by weight of binder; Actual ratio used will depend upon the surface finish required.

Application

The mixed material should be applied on to the prepared and primed floor using a notched or flat trowel to a typical thickness of 1.5 to 2mm minimum. The surface 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.

To achieve a non-skid finish, a coarse aggregate should be broadcast into the first layer of bodycoat. This should then receive a final sealing layer of **MASTERTOP 1278** (BC 388 + X1 color pack); Consumption of product for the final layer will depend upon the coarseness of the aggregate and final surface feature required.

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 **BASF** Construction Chemicals primer must be lightly broadcasted with sand or the cured primer reactivated using mechanical techniques and solvent wiping.

MASTERTOP 1288 should be protected from vehicle traffic and spillage for at least 24 hours. Full chemical and mechanical resistance is obtained after 24 hours. Suitable for foot traffic after 8 hours at 25°C.

CLEANING

Uncured material may be removed using **Thinner No. 1**. Cured material may only be removed mechanically.

ESTIMATING DATA

MASTERTOP BC 388 part A + MASTERTOP BC388 part B + X1 Colour Pack	
+ 4.2kg F1 Filler (30%)	= 11.5 Litres
2mm Thickness	= 5.75 m ² per kit
+ 10kg F1 Filler (70%)	= 7.15 m ² per kit

PACKAGING

Mastertop 1288: primer	Mastertop P 688 Part A	10kg
	Mastertop P 688 Part B	4kg
	Total yield (primer)	13L

Mastertop Body coat	Mastertop BC 388 Resin	10.5kg
	Mastertop BC 388 Hardener	3kg
	X1 Colour Pack	0.6kg
	Mastertop Filler (30%)	4.2kg
	Total Yield (bodycoat+30% Filler)	11.5L
	Total Yield (bodycoat+70% Filler)	14.3L

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

As with all epoxy products wear protective overalls, goggles and gloves. Prolonged contact with skin should be avoided as it could produce dermatitis, particularly with people whose skin may be sensitive to epoxy resin systems. Ensure adequate ventilation.

Mix entire contents of each unit as supplied. Do not attempt to split units unless accurate measurement can be assured.

Do not use at temperatures of less than 10°C ambient or substrate or where relative humidity exceeds 80% without reference to **BASF** Construction Chemicals.

Consider pre-warming all materials to 23-28°C approximately for ease of handling especially in cold temperatures. In cold environments, exposure to water prior to full cure may cause a whitening of the surface.

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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.

BASF Australia Ltd
A.B.N. 62008437867
Head Office: 11 Stanton Road Seven Hills, NSW 2147
Ph. (02) 8811 4200

Newcastle (02) 4961 3819
Canberra (02) 6280 6010
Brisbane (07) 3633 9900
Townsville (07) 4774 7344
Melbourne (03) 9549 0300

Adelaide (08) 8139 7500
Perth (08) 9366 2600
Darwin (08) 8984 3269
Kalgoorlie 0417 772 355

BASF New Zealand Ltd
BASF WEB SITES

Head Office: 45 William Pickering Drive, Albany, Auckland Ph: (09) 414 7233
www.basf-cc.com.au www.basf-cc.co.nz www.meyco.basf.com