

MASTERTOP[®] BC 388

A two component, self levelling, solvent free, hard binder for fast return to service epoxy floor coating

DESCRIPTION

MASTERTOP BC 388 is a solvent free, self levelling, two component epoxy binder for **MASTERTOP** floor systems, such as **MASTERTOP 1278, 1288** and **1298**. It cures to give a hard wearing, easy to maintain surface with a tolerance to a wide range of chemicals. Because the material reaches its ultimate mechanical properties quickly it allows fast return to service reducing downtime.

MASTERTOP BC 388 may be further extended when forming part of the **MASTERTOP 1288** and **1298 system** by using oven dried silica sand and colour pack. Please refer to system datasheets for details.

RECOMMENDED FOR

MASTERTOP BC 388 forms the basis of the **MASTERTOP 1278, 1288** and **1298** flooring systems which find use in applications such as:

- Warehouses
- Manufacturing and engineering plants
- Laboratories
- Chemical and pharmaceutical industries
- Shops and supermarkets
- High traffic areas and industrial workshops

FEATURES AND BENEFITS

- Excellent self-levelling properties – easy to apply
- High early mechanical strength – allows fast return to service at 24 hours at 25 °C
- Achieves full chemical resistance at 24 hours
- Excellent coverage – Able to be applied as a rollcoat and self levelling topping
- Very low emission – negligible odour
- Hard wearing – increased abrasion resistance over traditional epoxies
- Excellent chemical resistance – suitable for a wide range of intermittent exposures

PERFORMANCE DATA

At 23±2°C unless stated otherwise

Mix ratio by weight	A:B	3.5 : 1
Mixed density, at 20°C, g/cm ³	1.46	
Mixed viscosity, at 20°C, Mpa Brookfield DV II No 3 Spindle 100rpm	960	
Working time (10 kg unit)	30 min	
Re-coating interval, hrs	min. 4	
hrs	max. 6	
Fully cured	1 Day	
Permissible ambient and substrate temperature, °C	min. 15	max. 35

Max. permissible relative humidity, %	85	
Foot traffic	After 8 hours	
	1 day	7 days
Shore D hardness	>70	75
Compressive strength MPa ISO 178	>80	> 100
Flexural strength MPa, ISO 178	>5	>20
Bond strength, ASTM D4541	>1.5MPa (concrete failure)	>1.5MPa (concrete failure)
Abrasion resistance, ISO 7784	0.02	0.02
Youngs Modulus, ISO 527	>2.5MPa	>5Mpa
VOC Content	34 g/L	

The above figures are intended as a guide and should not be used as the basis for specifications.

APPLICATION

MASTERTOP BC 388 is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 30 °C. Pour the entire contents of part B into the container of part A. **DO NOT MIX BY HAND**. Mix with a mechanical drill and paddle at a very low speed (ca. 300-500 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. Please refer to individual system data sheets for further mixing and application details.

The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly.

The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least 8 hours after application (at 15°C). Maximum permissible moisture content of substrate is 7%.

CLEANING

Re-usable tools must be cleaned with Xylene or other suitable solvent.

PACKAGING

MASTERTOP BC 388 is supplied in:

Comprising	
Part A	10.5 kg
Part B	3.0 kg



The Chemical Company

MASTERTOP[®] BC 388

STORAGE

Store in original containers under dry conditions at a temperature between 15° – 30°C. Do not expose to direct sunlight. Shelf life is approximately 12 months from date of manufacture.

PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals.

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** Construction Chemicals **Material Safety Data Sheet (MSDS)** from our office or our website.

A/Mtop BC 388/7/1011

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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