

# MASTERTOP® 1298

Epoxy based high strength fast return to service mortar flooring system

## DESCRIPTION

**Mastertop 1298** is a solvent free, high performance, fast return to service epoxy screed for areas where heavy use is expected. **Mastertop 1298** can be applied directly to the floor and adheres to most substrates after proper preparation.

## RECOMMENDED FOR

- Food production facilities
- Warehouses and workshops
- Manufacturing facilities
- Where fast return to service and heavy duty is required

## FEATURES AND BENEFITS

- Fast return to service reaches optimum mechanical strength within 24 hours
- Solvent free
- Low viscosity
- High abrasion resistance
- Excellent chemical resistance
- Non shrink
- Use **Mastertop X1** Colour for tinting as required (or apply **Mastertop BC 388** as final topcoat)

## PERFORMANCE DATA

### Binder only at 23±2°C unless stated otherwise

Compressive strength 24 hours	>80MPa
Compressive strength 7 days	>100MPa
Heat deflection temperature	60°C
Bond strength, ASTM 4541	>1.5 MPa (concrete failure)
Abrasion resistance @ 24 hours, ASTM D4060: CS17 Wheel, 1kg, 1000 revs = 96 mg loss	
Impact resistance @ 7 days – 1kg load @ 1m head – 45 blows = concrete failure	
Foot traffic-8 hours after application of top coat	
Vehicle traffic - after 24 hours	

### Mortar Performance 7days at 23±2°C

Compressive strength at 70% fully loading	>60MPa
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### Chemical Resistance

**Mastertop 1298** resists most common organic and inorganic acids in diluted form, also resistant to alkalis, water, oils, grease, etc. Chemical resistance depends on the chemicals involved, their concentration, temperature and degree of exposure. Good housekeeping practices such as immediate clean up of all spillages will greatly extend the service life.

## PROPERTIES

	Part A	Part B	Mixed
Supply form	Liquid	Liquid	Liquid
Appearance	Cloudy	Clear	Cloudy

Mix Ratio	3.5:1 pbw
Mixed Density of Mastertop BC 388	1.46kg/L
Substrate Temperature	Min.15°C Max.35°C

## APPLICATION

### Surface Preparation

To obtain maximum performance:

- 1) Concrete should be well cured, at least 28 days old and have a minimum compressive strength of 25MPa and a tensile pull off of more than 1.5MPa.
- 2) Clean surface thoroughly to remove all contaminants such as dirt, oil, grease, wax, rust and coatings.
- 3) Remove laitance and roughen surface to ensure good bonding by chipping or captive shot blasting or other approved methods. Vacuum away all debris for maximum absorption and adhesion.
- 4) Shot or track-blast to expose firmly held substrate.

### Mixing

Use only full sets, mixing only what can be used in less than 30 minutes. Thoroughly stir **Mastertop BC 388** Part A then add the **Mastertop X1** colour pack, and mix till homogeneous and streak free. Then add Part B and blend thoroughly using a slow speed mixer (350 – 600 rpm) fitted with a suitable spiral headed mixing paddle.

Only clean, kiln dried sand should be mixed in. The maximum aggregate size should approximate to 1/3 of the maximum required depth.

The following suggested mix ratios are given as a guide only. Consideration should be given to the consistency of the mortar required, the volume of mortar and potential problems associated with exotherm if larger quantities are left in the mixing bucket.

### Binder (Mastertop BC 388 parts A & B mixed): Mastertop Filler (By weight)

1 : 1	Fluid skim coat
1 : 2.4	Mortar (Flowable)
1 : 4	Mortar
1:10	Mortar (Dry)

Note: The above Binders:Filler ratios are intended as a guide only. Actual ratio used will depend upon individual workability requirements and upon the characteristics of the Filler used.

**Mastertop 1298** mortar may be placed using standard trowelling techniques on to the prepared substrate. Where gauging to line and level for a skim coat, scrape material on and off the surface, leaving undulations and holes filled with resin mortar. Non skid textures can be achieved by applying a sprinkle of suitable **Mastertop Filler** into wet film.

Final overcoat with **Mastertop BC 388** or similar thin section material as required.

Note: The surface will have to be primed with **Mastertop P688** prior to final overcoating when using “dry” mortars.



The Chemical Company

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Use **Mastertop P688 Primer** only to prime. When aggregate ratio is over 1:3, resin to aggregate, apply **Mastertop 1298** mortar wet on wet, or within 24 hours on cured primer. Should **Mastertop P688** be expected to fully cure when priming, broadcast the wet film with **Mastertop F1** or **Mastertop F5 Filler** to provide mechanical adhesion.

## CURING

Time will vary depending on the ambient temperature, quantity mixed and placed, and the rate of sand addition. **Mastertop 1298** will normally have fully cured after 24 hours at 25°C. Foot traffic after 8 hours at 25°C.

## POT LIFE

Pot life will vary depending on the ambient temperature, quantity mixed and placed, and the filler content. Two litres of mixed **Mastertop 1298** will have a pot life of about 30 minutes at 23°C.

## ESTIMATING DATA

Binder : **Mastertop F1** ratio by volume  
1 : 1 (9.65:9.65L) Approx. Yield = 14.5L (0.75 total ratio)  
1 : 2.8 (9.65:27L) Approx. Yield = 27L  
1 : 4 (9.65:38.6L) Approx. Yield = 38.6L  
Priming coverage 4-6m<sup>2</sup>/litre.

## CLEANING

Use Xylene to clean equipment, tools before the material hardens.

## PACKAGING

<b>Mastertop 1298: primer</b>	<b>Mastertop P 688</b> part A	10kg
	<b>Mastertop P 688</b> part B	4kg
<b>Mastertop Body coat</b>	<b>Mastertop BC 388</b> Resin	10.5kg
	<b>Mastertop BC 388</b> Hardener	3kg
	<b>X1 Colour Pack</b>	0.6kg
	<b>Mastertop Filler</b>	25kg

## SHELF LIFE

**Mastertop 1298** can be stored in it's tightly closed original containers for 24 months at moderate temperature.

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

Do not use at substrate temperatures of less than 15°C or where relative humidity exceeds 80% without reference to **BASF Construction Chemicals**.

Consider pre-conditioning or 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

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## NOTE

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