



The Chemical Company

# MASTERTOP<sup>®</sup> 1110

Water dispersed epoxy resin coating

## DESCRIPTION

**MASTERTOP 1110** is durable coating based on an advanced water dispersed, two part epoxy resin. It has been specially formulated to provide a durable coating system.

**MASTERTOP 1110** is available in a large range of colours.

**MASTERTOP 1110** is suitable for contact with water intended for human consumption. It complies with SS375:1994 and is an approved material by Public Utilities Board.

## FIELDS OF APPLICATION

**MASTERTOP 1110** can be applied on a wide variety of substrates such as concrete, masonry, etc. It is recommended as a protective coating on floors and walls where both high levels of aesthetics and chemical resistance are desired. It is ideal for:

- Coating on areas in contact with potable water.
- wall coating in pharmaceutical and other areas that must be easy to clean
- protection of floors against mild acids, alkalis, mineral oils etc
- road tunnel wall coatings to improve the light conditions, to facilitate easy maintenance and to protect concrete against chemicals / pollutants
- tunnel segment protection coating
- curing membrane for concrete
- park-decks, industrial floors, warehouses and other light traffic areas

## FEATURES AND BENEFITS

**Odourless non toxic** No offensive odour. Non-toxic.

**Resistant to attack by chemicals** Lowers maintenance costs.

**Water vapour permeable** Allows surface to breath preventing build up of vapour pressure.

**Non inflammable** Advantage in areas prone to fire hazard.

**Light fast** Coating is not readily affected by exposure to light.

**Tools can be cleaned with water** Environment friendly and cost saving.

## TYPICAL PERFORMANCE DATA

Service Temperature : -20°C to 60°C  
Application Temperature : Minimum 10°C  
Maximum 35°C

## PROPERTIES

### a. Components

	Supply form	Colour	Density kg/L
<b>MASTERTOP 1110 Part A</b>	liquid	coloured	1.40
<b>MASTERTOP 1110 Part B</b>	liquid	amber	1.01

### b. Mixed systems

	Components	Mix ratio by weight
<b>MASTERTOP 1110</b>	A:B	1:1

Pot-life (minutes)\*

	@ 10°C	@ 20°C
<b>MASTERTOP 1110</b>	120	30

Curing time (days)

	@ 10°C	@ 20°C	@ 30°C
<b>MASTERTOP 1110</b>	7	2	1

Maximum permissible relative humidity

	@ 10°C	at >23°C
All components	75%	90%

### Note :

As water dispersed epoxy formulations show no clear signs of end of pot life such as increase viscosity exothermic reaction, it is possible that the material be applied after the expiry of the pot life. This must be avoided because material applied past pot life will develop a different colour from those applied within pot life. Therefore, no material should be applied after the material's pot life as indicated in the preceding table.

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## APPLICATION

### Surface Preparation

The compressive strength of the substrate shall not be less than 30N/mm<sup>2</sup>. Correct substrate preparation is critical for optimum performance. Surfaces should be structurally sound, clean, and free from loose particles, oil, grease, or any other contaminants.

Remove oil or grease and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds followed by mechanical cleaning. Cement laitance, loose particles, mould release agents, curing membranes and other contaminants must be removed from the surface by shot-blasting, Blastrac<sup>®</sup> scarifying or grit-blasting followed by vacuum cleaning. After pre-treatment of the substrate, the bond strength of the substrate must be least 1.5N/mm<sup>2</sup> (check with an approved pull-off tester, at load rate 100N/s).

Fill surface irregularities such as blow holes, honeycombs etc., with a **EMACO**<sup>®</sup> repair mortars to achieve a smooth and level surface.

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

### Mixing

Use a low speed (300 rpm) electric drill fitted with a paint mixer or a wing type paddle. Premix one unit of **MASTERTOP 1110** Part A with one unit of **MASTERTOP 1110** Part B for at least 3 minutes until the mix is uniform and free of streaks.

### Placing

The mix is applied to the pre-treated substrate by spraying, paint-roller or a brush. Depending on the absorbency of the substrate, the **MASTERTOP 1110** mixture for the first coat may be diluted with up to 10% of water. Apply the first coat onto the still damp substrate or pre-wet the surface to be coated.

Depending on the surface finish, up to 3 coats may be required to achieve the required finish.

Following application of **MASTERTOP 1110**, the coated area must suitably be protected for at least 24 hours after laying, from spillage, dust, insects, small animals, traffic, rain, moisture, etc.

## ESTIMATING DATA

System	Product	kg/m <sup>2</sup>	Thickness mm (wft)
1 <sup>st</sup> coat	<b>MASTERTOP 1110</b> Diluted with (approx) 10 % water	0.20- 0.30	0.15
2 <sup>nd</sup> and 3 <sup>rd</sup> coat*	<b>MASTERTOP 1110</b>	0.20- 0.25	0.15 - 0.20

\* Optional.

## CLEANING

Clean tools and equipment first with paper towels or rags, then wipe using water before the resin system hardens.

## PACKAGING

**MASTERTOP1110** 10.0kg/set

## SHELF LIFE

All components of **MASTERTOP1110** can be kept for 12 months in original unopened packing, if stored in a dry enclosed place without exposing to direct sunlight and at temperatures between 15 to 35°C, avoid freezing.

## PRECAUTIONS

For detailed Health, Safety, Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet .

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** 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.

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