



The Chemical Company

# MASTERTOP® 1110

## Water Dispersed, Epoxy Floor and Wall Coating

### Description of Product

**MASTERTOP® 1110** is an epoxy based, two component, water dispersed floor and wall coating designed to protect wooden and asphalt surfaces and walls and ceilings.

It can also be used as the top coating of **MASTERTOP® 1700** water dispersed epoxy coating systems. **MASTERTOP® 1110** is a part of **CONIDECK® 2261** car park coating system.

### Fields of Application

- Car parks,
- Pharmaceutical industry,
- Hotels,
- Schools and hospitals,
- Industrial kitchens \*,
- Beer, wine and raisin production industry\*,
- Soft drink & fruit juice production industry\*,
- Tomato paste and canned food industry \*,
- Meat and fish industry \*.

\*used only on walls.

### Features and Benefits

- Easy to apply.
- Tolerant to moisture, can be applied on wet concrete surfaces.
- Economic.
- Odourless.
- Has an anti-microbial surface.
- Easy to clean to provide hygienic environments.
- Since it does not contain solvent and is odourless, it can be used in food production plants.

### Application Procedure

#### Preparation of Substrate

The concrete substrate on which **MASTERTOP® 1110** is to be applied should be grade C25 or minimum 350 kg/m<sup>3</sup>. tensile strength of the concrete substrate should be minimum 1,5 N/mm<sup>2</sup>, temperature of the substrate should be minimum +8°C. Substrate temperature should be at least +3°C higher than the dew point. The surface should be saturated with water however there should not be any water on the surface.

### Technical Data

Material Structure		
<b>MASTERTOP® 1110</b> Compt A	Epoxy Resin	
<b>MASTERTOP® 1110</b> Compt B	Epoxy Hardener	
Colour	Various RAL clr's	
Mixture Density	1,1 kg/litre	
Breaking Tensile Strength (from concrete)	> 1,5 N/mm <sup>2</sup>	
Water Vapour Permeability	U 40000	
Abrasion Resistance (Taber)	165 mg	
Substrate Temperature	+8°C +35°C	
Pot(Working) Life	25 minutes	

All figures are at 23°C with a relative humidity of 50 %. Higher temperatures cause shorter cure times and vice versa.



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The substrate should be structurally sound, dry, dust free and clean. Clean surfaces of oil, grease, rust, wax and other adhesion impairing contaminants. Any laitance on the surface should be removed by sand or shot blasting or diamond grinding; outcome dust layer should be vacuumed by industrial vacuum cleaners.

## Mixing

**MASTERTOP® 1110** is supplied as ready-to-use kits. Before mixing, precondition both A and B components to a temperature of approximately +15 to +25°C. **MASTERTOP® 1110** component A is pigmented. Mix for 3-4 minutes with a mechanical drill and paddle at 300-400 rpm until a homogenous colour is obtained without causing air bubbles. Pour the entire contents of part B into the container of part A, make sure that there is no product left in the component B package. Scrape the sides and the bottom of the container several times to ensure a thorough mix. After mixing **MASTERTOP® 1110** components A+B with an epoxy/polyurethane resin paddle fitted to a drill at 300 -400 rpm for at least 3 minutes until a homogenous consistency is obtained without causing air bubbles, pour the mixed parts, A and B, into a fresh container, set it aside for a while and then mix for another minute.

## Mixing Ratios

<b>MASTERTOP® 1110</b>	<b>Component A</b>	<b>Component B</b>
Mix amount	5 kg	5 kg
Density of mix	1,10 kg /liters	

## Application Method

**MASTERTOP® 1110** should be applied with a roller to achieve the desired thickness. The surface should be well raked to minimise streaks

## Coverage

It depends on the absorbency and smoothness of the surface. On less absorbent and normal rough surface, depending on the purpose of use;

Non-dusting coating (2 layers, 0,3 mm)	400 gr/m <sup>2</sup>
Tunnel coating (2 layers)	500 gr/m <sup>2</sup>
Mineral oil tanks (2 layers)	600 gr/m <sup>2</sup>

*10 kg. **MASTERTOP® 1110** will cover approximately 25 m<sup>2</sup> in two layers. If the surface is too porous, for only first layer, it is recommended to add water at a weight ratio of 5-10 %.*

## Watchpoints

- Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +8 or above +35°C.
- As the application material should have the same temperature as the ambient and substrate temperature, make sure it has been stored for at least 1-2 days at the same temperatures before application.
- In cold conditions, the substrate and material temperatures should be preconditioned to +20 - +25°C by artificial means to increase the workability of the product .
- Polyurethane and epoxy flooring systems should be applied by specialists.
- Joint dimensions should be designed observing possible movements and these joints should overlap the coating.
- Reaction and workability times of resin based systems depend on the ambient and substrate temperatures as well as relative humidity. Under lower temperatures the chemical reaction times are longer and this increases pot(working) life coating interval and working time. In addition to this, the Coverage is increased as the viscosity gets higher. High temperatures ignite stronger chemical reactions and above mentioned time decreases accordingly. For the material to be cured properly, the ambient and substrate temperatures should not fall below specified limits. After application, the material should be

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protected from direct contact with water minimum for 24 hours. Within this period, contact with water can cause a surface carbonation and/or tackiness, both of which will cause the coating to lose its properties. In such cases the overall coating should be removed from the floor and renewed.

- **MASTERTOP® 1110** is supplied in working packs which are pre-packaged in the exact ratio. No solvent should be added. Mixing is done with a mechanical drill and epoxy/polyurethane paddle at 300-400 rpm. Do not mix by hand.
- After the first mixing the mixture should always be transferred to a fresh container and should be mixed again.
- Empty packs should be consolidated and disposed of properly to prevent reusing of the packages.

## Cleaning of Tools

Used tools and equipment must be cleaned carefully with an appropriate solvent. Once cured **MASTERTOP® 1110** can only be removed by mechanical means.

## Packaging

10 kg set  
Component A : 5 kg drum  
Component B : 5 kg drum

## Storage

Store in an unopened, original container, under dry and cool conditions and protect against frost. For short term storage, do not stack more than 3 pallets on top of each other and dispatch them on a first come - first go basis. pallets should not be stacked on each other on a long term basis.

## Shelf Life

12 months in original unopened packaging if stored in appropriate conditions. Opened packages should be consumed in one week.

## Health and Safety Precautions

It is dangerous to approach the storage and application sites with fire. Fresh air should be circulated at the storage and application site. The following protective measures should be taken when working with the material : Wear safety gloves, goggles and protective clothing which comply with the Occupational Health and Safety Rules. Because of the irritation effect of the uncured material, the components should not come in contact with the skin or eyes. Under such circumstances, the effected area should be washed with plenty of water and soap. If swallowed, seek medical attention immediately. Do not drink or eat at the application site. Keep out of reach of children. For detailed information please refer to the safety information form (material data sheet) .

## Disclaimer

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