



The Chemical Company

# MasterTop® TC 465

## Two Component, Polyurethane Based, Top Coat with a Matt Surface

### Description of the Product

**MasterTop® TC 465** is a two component, solvent containing, pigmented, UV resistant, polyurethane based top coat with resistance to abrasion and chemicals and cures to a matt finish.

### Fields of Application

It is used as the top coat for **MasterTop®** floor coating systems.

### Features and Benefits

- High abrasion and chemical resistance
- Easy to apply.
- Elastic
- Matt finish.
- Resistant to UV and weather conditions.
- Good adhesion to non-porous substrates.
- Low viscosity.

### Chemical Resistance

Resistant to alkalis and acids. For detailed information, please contact our Technical Services.

### Application Procedure


#### Preparation of Substrate

The surface of the coating on which **MasterTop® TC 465** is to be applied should be free of dust, dirt, oil and other adhesion impairing contaminants. The application should be carried out within the recoating interval of the coating. Contact our Technical Services for the application on old coating.

### Mixing

**MasterTop® TC 465** is supplied as ready to use kits in the exact ratio. Before mixing, precondition both A and B parts to the temperature of +15°C - +25°C. **MasterTop® TC 465** part A is pigmented. Mix the part A with

### Technical Data

<b>MasterTop® TC 465</b> Part A	Polyurethane Resin	
<b>MasterTop® TC 465</b> Part B	Polyurethane Hardener	
Color	Various Ral Colors	
Mixed Density	1,31 kg/liters	
Viscosity	600 mPas	
Substrate Temperature	+10°C +30°C	
Pot (Working) Life	35 min	
Ready to Traffic	48 hours	
Fully Cured	7 days	

*The above figures are valid for 23°C and intended as a guide only and should not be used as a basis for specifications.*



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an epoxy/polyurethane paddled drill at 300- 400 rpm for 3-4 minutes until a homogenous colour is achieved 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 part B package. Scrape well the sides and the bottom of the container to ensure a thorough mixing. After mixing **MasterTop<sup>®</sup> TC 465** parts for 3-4 minutes, pour the mix into a fresh container, set it aside for a while and mix for another minute.

## Mixing Ratio

MasterTop <sup>®</sup> TC 465	Part A	Part B
Mixing Ratio	8,3 kg	1,7 kg
Mixed Density	1.31 kg/liters	

## Application Method

**MasterTop<sup>®</sup> TC 465** should be applied with a roller. The surface should be well raked to minimise streaks.

## Coverage

0.10-0.15 kg/m<sup>2</sup>

## Watch Points

- Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +10°C or above +30°C.
- The materials to be used at the appropriate temperatures should be brought and stored in the application area 1-2 days prior to the application and enabled to adjust the ambient conditions.
- In extremely cold conditions, heaters should be used to increase the ambient and the workability of the product, the packages should be preconditioned to +20°C - +25°C

to become ready to use.

- Epoxy and polyurethane based floor coatings should be applied by specialists.
- The reaction and workability times of resin based systems depend on the ambient and substrate temperatures as well as the relative humidity.
- Under lower temperatures, the chemical reaction times are prolonged and this increases the pot life, coating interval and the working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and the above mentioned times decrease accordingly. For the material to be cured properly, the ambient and the substrate temperatures should not fall below the specified limits. After the application, the material should be protected from direct contact with water for 24 hours minimum. Within this period, a contact with water may cause a surface carbonation and/or tackiness; both of which will cause the coating to lose its characteristics. In such cases, the overall coating should be removed from the floor and renewed.
- Permissible relative humidity is 80% max. during application.
- **MasterTop<sup>®</sup> TC 465** is supplied as ready-to-use kits. No solvent etc should be added during application. Mixing should be done with a mechanical drill at 300-400 rpm with epoxy/polyurethane mixing paddles.
- DO NOT MIX BY HAND.
- After the first mix, contents should be poured into a clean container and mixed once again.
- The empty packs should be consolidated and disposed properly in order to prevent reusing of the packages.



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## Cleaning of Tools

Used tools and equipment must be cleaned carefully with an appropriate solvent. Once cured **MasterTop® TC 465** can only be removed by mechanical means..

## Packaging

10 kg set

Part A: 8.3 kg drum

Part B: 1.7 kg drum

## Storage

The product should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 3 palletes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palletes should not be placed on top of each other during long term storage.

## Shelf Life

The shelf life is 12 months from the date of production under suitable storage conditions. Opened packages should be stored under suitable storage conditions and used within 1 week.

## Health and Safety Precautions

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should

not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

## Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge **BASF Yapi Kimyasallari Sanayi A.Ş.** is only responsible for the quality of the product. **BASF Yapi Kimyasallari Sanayi A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones (08/2013).