

# Mapefloor PU TC

## Polyurethane topcoat

### PRODUCT DESCRIPTION

**Mapefloor PU TC** is a two-component flexible, highly wear resistant topcoat with a low amount of solvents design for use in high traffic areas.

**Mapefloor PU TC** has excellent properties against yellowing (UV-resistant).

**Mapefloor PU TC** is supplied as glossy in either transparent or colored.

### AREA OF USE

**Mapefloor PU TC** is a polyurethane topcoat for use in- or outdoor on areas submitted for high traffic load. Suitable application areas are parking houses, ramps, industrial flooring or similar.

### Products:

- **Mapefloor PU TC**, transparent - 4,4 kg set
- **Mapefloor PU TC**, grey 31 - 3,9 kg set
- **Mapefloor PU TC**, other colors.

### DIRECTIONS OF USE

#### Preparation

The concrete should be clean, dust free and structurally sound. Normal methods for surface preparation are grinding or shot blasting. The surface temperature should be at least + 10 °C and + 3 °C above current dew point when applying the product.

Not reacted product must be protected from water or moisture.

Warning: Take special notice that the substrate must be dry, the current dew point and that all aggregates used for scattering must be dry.

#### Mixing

Comp. A and Comp. B should have a temperature of at least +10°C at the time of mixing. Start by stirring Comp. A, and then add Comp. B. Continue mixing for at least 3 min until the product is completely homogenously. Mixing must be at slow speed with drill and whisk.

### Manufacturer:

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### Application

#### System for parking houses

##### a. Primer

The pretreated surface must be primed with **Mapeprimer P** before applying **Mapefloor PU M** or **Mapefloor PU Flexibinder**. The primer should ideally be applied with steel trowel or plastic spreader, and should then be post rolled so that all pores are filled and the surface appears as sealed without any dry areas. The fresh primer must be scattered with dry quartz sand e.g. 0,4-0,8 mm to ensure adhesion.

##### b. Membrane (optional)

Not bound quartz sand must be removed before applying **Mapefloor PU M**. **Mapefloor PU M** should then be applied with a trowel or floor scraper in thickness depending on area of use.

##### c. Wear coat

A wear coat with **Mapefloor PU Flexibinder** must be applied the reacted layer of **Mapefloor PU M** within 24 hours

(at 20 °C). **Mapefloor PU Flexibinder** should be applied with a trowel or a spreader in at thickness of at least 1 mm, and should be scattered to excess with dry quartz 0,4-0,8 mm, 0,7-1,2 mm or with hard wearing aggregates like **Dynagrip**, **Bauxite**, **Emery** or crushed granite.

##### d. Topcoat

Not bound quartz sand must be removed before applying topcoat.

**Mapefloor PU TC** (glossy – transparent or colored) should be applied with a spreader and post rolled. The product should not be applied by spray application. Workability is approx 30 min. (depending on temperature) Material consumption and number of application steps greatly varies on type of aggregates used, and on the skid resistance desired.

Recommended maximum consumption is 0,3 - 0,6 kg/m<sup>2</sup> on each application step.



**CLEANING**

Tools and equipments must be cleaned immediately after use with **Tynner** or any other solvent for polyurethane resins. (Ethanol can not be used)

**STORAGE**

Stored free of frost in unopened packaging, the product properties remain unchanged for at least 6 months.

**SAFETY INSTRUCTIONS**

For health, safety and environmental information, see separate safety data-sheet at [www.mapei.com](http://www.mapei.com)

**NOTE**

*Although the technical details and recommendations contained in this product report correspond to the best of our knowledge and experience, all the above information must, in every case be taken as merely indicative and subject to confirmation after long-term practical applications: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application; in every case, the user alone, is fully responsible for any consequences deriving from the use of the product.*

*All deliveries from Mapei AS are made in accordance with the sale- and delivery conditions applicable at the time, and these conditions are taken to be accepted on placement of an order.*

**TECHNICAL SPECIFICATIONS**

	<i>Mapefloor PU TC, Transparent</i>	<i>Mapefloor PU TC, grey 31</i>
<i>Density</i>	<i>approx. 1,1 – 1,2 g/cm<sup>3</sup></i>	<i>approx. 1,35 g/cm<sup>3</sup></i>
<i>Mixing ratio</i>	<i>Comp A: Comp B = 100:10</i>	<i>Comp A: Comp B = 87,5:10</i>
<i>Viscosity (mixing product)</i>	<i>approx. 200 cp</i>	<i>approx. 3000 cp</i>
<i>Abrasion resistance (Taber CS 10, 2 x 1000 g - 7 days at 20 °C / 50% RH)</i>	<i>9 mg</i>	<i>20 mg</i>
<i>Workability (20 °C / 50% RH)</i>	<i>approx. 30 minutes</i>	<i>approx. 30 minutes</i>
<i>Lowest application temperature</i>	<i>+ 10 °C</i>	<i>+ 10 °C</i>
<i>Drying time 20°C / 50 % RH</i>	<i>approx. 5 hours</i>	<i>approx. 6 hours</i>
<i>Step on time (20°C / 50 % RH)</i>	<i>24 hours</i>	<i>24 hours</i>
<i>Final cured (at 20°C / 50 % RH)</i>	<i>3 days</i>	<i>3 days</i>

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