

MASTERTOP TC 465

2K-PU top coat, UV-stable, weather resistant, pigmented, elastic, for soft and elastic polyurethane body coats

Material description

MASTERTOP[®] TC 465 is a pigmented, low viscosity, two component polyurethane top coat which cures to an elastic film with a satin matt finish. MASTERTOP TC 465 contains solvents.

Fields of application

MASTERTOP TC 465 is designed for use as a wear resistant top coat on soft and/or elastic MASTERTOP polyurethane floor coating systems e.g. MASTERTOP 1325 or MASTERTOP 1325 REG for indoor application and MASTERTOP 1338 for outdoor application. For outdoor applications a 2-fold application is required.

Features and benefits

- abrasion resistant
- improves wear and scratch resistance
- elastic
- satin matt finish
- UV- and weather resistant
- good adhesion to non-porous substrates
- easy to clean and maintain
- low viscosity
- easy to apply
- large number of colours

Application method

MASTERTOP TC 465 is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 25 °C.

Pour the entire contents of part B into the container of part A. **DO NOT MIX BY HAND.** Mix with a mechanical drill and paddle at a very low speed (ca. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. **DO NOT WORK OUT OF THE ORIGINAL CONTAINER.** After proper mixing to a homogeneous consistency pour the mixed parts A and B into a fresh container and mix for another minute.

MASTERTOP TC 465 is applied by roller. The application should be crosswise and finishing off with a separate, wide roller. Application should start along the shortest wall of the floor to be coated, working towards the opposite end. Care should be taken to avoid dry edges which will show up as roller marks in the finished state.

The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum. The temperature of the substrate must be at least 3K above the dew point both during the application and for at least a further 24 hours (at 15° C).

Technical data*

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|---|----------|-------------------|--------------------|
| Mixing ratio | | by weight | 5 : 1 |
| Solid content | | % | 64 |
| Density | at 20 °C | g/cm ³ | 1,31 |
| Viscosity | at 23 °C | mPas | 600 |
| Working time (10-kg) | at 23 °C | min | 35 |
| Re-coating interval | at 23 °C | h | min. 24 max. 48 |
| Ready for pedestrian traffic | at 23 °C | h | 48 |
| Fully cured | at 23 °C | d | 7 |
| Permissible ambient and substrate temperature | | °C | min. 8 max. 30 |
| Permissible relative humidity | | % | max. 80 |

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

MASTERTOP TC 465 is not suitable for hard epoxy body coats (e. g. MASTERTOP BC 370).

Substrate pre-treatment

MASTERTOP TC 465 will be applied on elastic MASTERTOP body coats based on polyurethane.

The coating to which MASTERTOP TC 465 is to be applied must be clean and dry and free from oil, grease and loose material and any other substance which may impair adhesion. Application should take place within the re-coat intervals of the coating to which it is to be applied.

Cleaning agent

Re-usable tools must be carefully cleaned immediately with Cleaner 40 or with e.g. solvent naphtha.

Packing

MASTERTOP TC 465 is supplied in 10-kg working packs.

Colours

MASTERTOP TC 465 is available in a range of colours. Consult your local sales office.

Note for colour selection:

For darker or highly pigmented colours it could be, in spite of all care during processing, that there shadings or fine structures in the surface are visible. This effect is systemic in nature and does not affect the product suitability. Higher pigmented colours can also have an increased "colour" abrasion. In these cases an additional transparent top coat (e.g. MASTERTOP TC 467 C-N) should be applied. If in doubt, advance should be created a test area for evaluation.

Consumption

ca. 0,10 – 0,15 kg/m²

Storage

Store in original containers under dry conditions at a temperature between 15 – 25° C. Do not expose to direct sunlight. For maximum shelf life under these conditions, see "Best before....." label.

EU-regulation 2004/42 (Decopaint-guideline)


This product conforms to the EU directive 2004/42/EG (Deco-Paint directive) and contains less than the maximum allowable VOC Limit (Stage 2, 2010). According to the EU directive 2004/42, the maximum allowable VOC content for the Product Category IIA / j type sb is 500 g/l (Limit: Stage 2, 2010). The VOC content for MASTERTOP TC 465 is < 500 g/l (for the ready to use product).

Warning and precautions

In its cured state, MASTERTOP TC 465 is physiologically non-hazardous. The following protective measures should be taken when working with the material:

Wear safety gloves, goggles and protective clothing. Avoid contact with the skin and eyes. In case of eye contact, seek

CE-Marking

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| BASF Construction Chemicals Europe AG Industriestrasse 26, CH-8207 Schaffhausen | |
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| For use in buildings (System build ups according to the respective technical data sheets) | |
| Product features | EN 13813 |
| | SR-B1,5-AR0,5- IR4-E _n |
| | Synthetic resin screed / coating |
| Fire behaviour* | E _n |
| Release of corrosive substances | SR |
| Water permeability | NPD |
| Water vapour permeability | NPD |
| Wear resistance** (BCA) | AR0,5 |
| Adhesive tensile strength** | B 1,5 |
| Impact resistance** | IR4 |
| Subsonic noise insulation | NPD |
| Acoustical absorption | NPD |
| Heat insulation | NPD |
| Chemical resistance | NPD |

* see approval fire behaviour in system build ups according to EN 13501-1

** Performance determined in systems

NPD = No performance determined

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