

MasterTop TC 442 W

Two-component, water-based, UV-resistant, satin, colored and transparent polyurethane coating specific to the MasterTop 1200 series and MasterTop 1324 series.

MATERIAL DESCRIPTION

MasterTop TC 442 W is a two-component polyurethane coating in aqueous emulsion with a satin finish. Available in transparent and colored version.

FIELDS OF APPLICATION

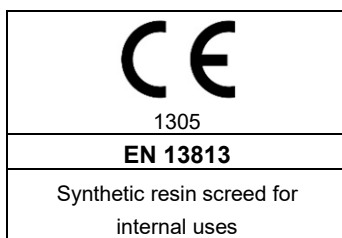
MasterTop TC 442 W is designed, for use as a wear resistant clear or pigmented top coat on semi-rigid polyurethane systems, i.e. MasterTop 1324 and on epoxy systems, i.e. MasterTop 1273.

FEATURES AND BENEFITS

MasterTop TC 442 W:

- it is a water product;
- increases the wear and abrasion resistance of the MasterTop 1273, 1324 systems on which it is to be installed;
- resistant to UV rays (resistance to artificial atmospheric agents, 2000 hours of UV rays and condensation UNI EN 1062/11 without swelling, cracks or flaking);
- impermeable to water (capillary absorption coefficient, UNI EN 1062/3 <0.05 kg · m⁻² · h^{-0.5});
- allows easy application and cleaning (in fact it also has good resistance to dilute solutions of acids and bases) as well as easy maintenance of the flooring;
- NMP, APEO, VOC, glycol- and solvent free;
- very low emission (according AgBB).

In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 13813 and to UNI EN 1504/2 and the relative DoP (Declaration of Performance).



THEORETICAL COVERAGE

0,10 - 0,15 kg/m².

PACKAGING

A + B = 10 kg (A 8 kg, B: 2 kg).

STORAGE

MasterTop TC 442 W must be stored in a sheltered, dry place at a temperature between +10°C and +30°C inclusive.

| Technical information | |
|--|--|
| Density | 1,07 ± 0,1 kg/l clear 1,15 ± 0,1 kg/l colored |
| Pot life | 45 minutes at 20°C |
| Solids | 50 % by weight |
| Brookfield viscosity (impeller 5, 20 revolutions per minute) mPa s | 840 |
| Mixing ratio | 4A :1B |
| Application temperature | +8°C e +40°C |
| Relative humidity | 30-80% |
| Substrate temperature | 10-30°C |
| Recoating time at 20°C | 16 – 24 hours |
| Walkable | 12°C: 24 h 23°C 18 h 30°C 12 h |
| Complete hardening/final set | 7 days at 20°C |
| Air working temperature | - 20°C ÷ 80°C |
| Taber abrasion (CS 10,1 kg,1000U) | 48 mg |

MasterTop TC 442 W

Two-component, water-based, UV-resistant, satin, colored and transparent polyurethane coating specific to the MasterTop 1200 series and MasterTop 1324 series.

APPLICATION SHEET

PREPARATION OF THE SUBSTRATE

The floors to be protected with MasterTop TC 442 W must be pre-treated by degreasing with solvent or sanding only if the overcoating times of the resin to be protected are exceeded.

MIXING

Before laying, the product temperature must be between 15 and 25°C. Each component must be homogenized for a few minutes with a low-speed mixer fitted with a whisk in its container. Then pour both components into an empty and clean bucket and mix the material for at least three minutes with a low-speed mixer fitted with a whisk. Thoroughly clean the sides of the bucket of any material present to ensure complete mixing.

At the end of homogenization, keep the whisk inside the bucket to avoid the inclusion of air in the material. Then transfer the mixed material to another container and mix for another minute. After this operation let the material rest for at least 10 minutes.

APPLICATION

Use only an 11 mm microfibre roller for the transparent version and 8 mm for the colored one, with a maximum width of 40 cm.

Start laying from the middle of one of the short sides of the flooring. Immerse the roller in the mixed material and make a pass of MasterTop TC 442 W, parallel to the wall, up to one of the corners; immerse the roller again and make a second pass from the starting point to the other corner. Continue in this way making overlaps of a few centimeters between the passes.

Finally, using a clean roller, roll the material from one corner to the other without interruption. Stagger the rolls by 10 - 20 centimeters in order to pass over the previous overlaps and continue without interruption to the opposite wall.

When most of the material has been rolled the second time (with the roll clean), apply two more passes and pass the second roll as described. In this way the times between the overlaps should not exceed 4 minutes, thus minimizing the roll marks. During installation, it is important to carry out the fresh-on-fresh overlaps to avoid seeing the roll marks on the hardened coating.

CLEANING

Tools used for mixing and applying the material can be cleaned with epoxy thinner.

FLOOR CLEANING

For every detail relating to the cleaning aspects of the floor, always refer to the specific document "MasterTop Linea Industrial Cleaning".

TIPS AND PRECAUTIONS

MasterTop TC 442 W initially polymerizes by evaporation of water, followed by the reaction between the two components; the importance of the operating environmental conditions (temperature and relative humidity during installation) is therefore evident. A high relative humidity slows down the hardening of the material. After installation, the material must be protected from direct contact with water for at least two hours at 23°C and 50% RH.

APPLICATION MANUAL

For every detail relating to the application aspects, always refer to the specific document "MasterTop Comfort Floors Application Manual".

WARNINGS

MasterTop products are for professional use. For further information, consult the Master Builders Solutions Italia Spa area technician.

SAFETY INSTRUCTION

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

OTHER SERVICES

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website www.master-builders-solutions.com/it-it or contact infomac@mbcc-group.com.

Scan the QR code to visit the product page and download the latest version of this datasheet.

MasterTop TC 442 W

Two-component, water-based, UV-resistant, satin, colored and transparent polyurethane coating specific to the MasterTop 1200 series and MasterTop 1324 series.



Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

Master Builders Solutions Italia Spa

Via Vicinale delle Corti, 21 – 31100 Treviso – Italia

T +39 0422 429200 F +39 0422 421802

www.master-builders-solutions.com/it-it

e-mail: infomac@mbcc-group.com

For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.

Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.