

MasterTop 417 W

Two-component, water-based, antibacterial, UV-resistant, elastic, satin, colored and transparent polyurethane finish specific to the MasterTop series 1300 and MasterSeal Roof systems

MATERIAL DESCRIPTION

MasterTop TC 417 W is a two-component elastic polyurethane coating in aqueous emulsion with a smooth matt, antibacterial finish, available in the transparent and colored version in the various RAL.

FIELDS OF APPLICATION



MasterTop TC 417 W is ideal for use as a final protective coating for MasterTop 1325, 1326, 1327, WS systems, in hospitals, schools, etc. and in all areas where the use of materials containing solvents is inappropriate. It can also be used as a UV resistant finish in MasterSeal Roof waterproofing systems (for this specific case, contact our Technical Service).

FEATURES AND BENEFITS

MasterTop TC 417 W:

- it has bacteriostatic characteristics according to ISO 22196:2007;
- it is a water based product;
- impermeable to water (capillary absorption coefficient, UNI EN 1062/3 $<0.05 \text{ kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0.5}$);
- it allows to increase the wear and abrasion resistance of the underlying coating while keeping its elastic characteristics unaltered;
- UV resistant (resistance to artificial atmospheric agents, 2000 hours of UV rays and condensation UNI EN 1062/11 without swelling, cracks or flaking);
- allows easy application and cleaning (it also has good resistance to dilute solutions of acids and bases) as well as easy maintenance of the flooring.

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 1504-2 and the relative DoP (Declaration of Performance).

 1305	 1305
EN 13813	EN 1504-2
Synthetic resin screed for internal uses	Surface protection products – Coating

CONSUMPTION

0,10 - 0,11 kg/m².

STORAGE

Store the material in the original containers, in a dry and covered place at a temperature between 15 and 25°C. Do not expose to direct sunlight.

PACKAGING

A + B = 10 kg (A 8,5 kg, B: 1,5 kg)

Technical data	
Solid content	48% Clear 50% Coloured
Density	1,06 kg/liter Clear 1,2 kg/liter Coloured
Mixing ratio	85 A : 15 B
Viscosity (mixed product) 4 mm DIN cup, 23°C (s)	35-55 s
Workability at 23°C	45 min
Light pedestrian traffic, 50% RH	12°C: 24 h 23°C: 18 h 30°C: 12 h
Recoating time 20°C 50% RH	16-24 h
Complete hardening, 23°C 50% RH	7 days
Temperature air and support (min / max)	10 - 30°C
Relative humidity	30 – 80%

APPLICATION SHEET

PREPARATION OF THE SUPPORT

The floors to be protected with MasterTop TC 417 W must be pre-treated by degreasing with solvent or sanding only if the overcoating times of the resin to be protected are exceeded.

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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 walls of the bucket from 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 417 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. Thus the times between the overlaps

should not exceed 4 minutes, thus minimizing 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.

MasterTop TC 417 W dries primarily by evaporation of water followed by a chemical cross-linking reaction. Therefore, when applying MasterTop TC 417 W, the ambient temperature and humidity is of importance. High humidity (especially in combination with low temperatures) slows down the drying process. After

application, the surface should be protected from direct contact with water for at least 24h (23°C / 50% r.h). Note: because of the good cleaning ability of MasterTop TC 417 W, an initial care is not necessarily required. The slight surface structure can be seen by a glossy cleaning maintenance. In order to preserve the optical properties, just satin matt to matt cleaning maintenance is suitable

EU REGULATION 2004/42 (DECOPAINT GUIDELINE)

The VOC content for MasterTop TC 417 W is < 140 g/l (for the ready to use product).

According to the EU directive 2004/42, the maximum allowable VOC content for the Product Category BA/j is 140 g/l (Since 01/2010).

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".

WARNINGS

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

WATCH POINTS

MasterTop TC 417 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.

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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.



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

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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.