

Mastertop[®]TC405W

Water-borne, matt polyurethane seal coat

Description

Mastertop[®]TC405W is a clear, water-borne, two component, polyurethane based top sealer which cures to a matt finish.

Fields of application

Mastertop[®]TC405W is designed for use as a matt UV resistant top coat on Mastertop[®] coating systems such as Mastertop[®]1324, 1325 and 1326 and Mastertop[®]DAP and other hard epoxies.

Features and benefits

- Water based, environmentally friendly
- Easy to apply
- Good adhesion to non-porous substrates
- Good abrasion and scratch resistant
- Uniform matt finish
- UV resistant
- Resistant to dilute acids and alkalis and petroleum based solvents
- Easy to clean and maintain

Packaging

Mastertop[®]TC405 W is supplied in 10 kg working packs.

Colours

Clear (matt). Contact BASF Construction Chemicals SA representative for details.

Technical data*

Mixing ratio A : B (by weight)	100 : 25
Mixed density	1.0 g/cm ³
Solids content by volume	45%
Working time at 23°C	3 hours
Able to take light pedestrian traffic at 23°C / 50 % r.h.	12 hours
Permissible ambient and substrate temperatures	min. 8°C max. 35°C
Permissible relative humidity	max. 85%

*Properties listed are only for guidance and are not a guarantee of performance

Application method

Before mixing, precondition both A and B components to a temperature of approximately 15 to 25°C. Pour the entire contents of Parts A and B into a clean pail. Do not mix by hand. Mix with a mechanical drill and paddle at a 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. After proper mixing to a homogeneous consistency pour the mixed Parts A and B into a fresh container and mix for another minute. After mixing allow to stand for at least 10 minutes.

As with all water borne sealers, it is important to avoid dry edges by always working wet in wet when overlapping, otherwise roller marks will be visible in the final finish. Using a max. 40 cm, medium nap roller, start in the middle of one of the short sides of the floor. Dip the roller into the mixed material and roll out a strip of Mastertop[®]TC405W, parallel to the wall out to one of the corners

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Dip the roller into the material once again and roll out a second strip from the starting point out to the other corner. Move backwards and repeat these steps, overlapping the first strip by a few cm. Using a second roller, starting in one corner, back roll the Mastertop[®]TC405W, without stopping, to the other corner. Offset the roller by 10-20 cm and roll over, again without stopping, to the opposite wall. Always roll in the same direction, do not back roll in a criss-cross pattern. When almost all the laid material has been back rolled, lay two more strips and back roll as described above. Using this method, the period between the overlapping should not exceed 1 – 4 minutes and visible roller marks will be minimised.

Mastertop[®]TC405W dries primarily by evaporation of water followed by a chemical cross-linking reaction. Therefore when applying Mastertop[®]TC405W, the ambient temperature and humidity are 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 24 hours.

Substrate pre-treatment

The coating to which the Mastertop[®]TC405W is applied should be clean and dry. Application should take place within the re-coat intervals of the coating to which it is to be applied.

Consumption

The consumption of Mastertop[®]TC405W is between 0.1–0.12 kg/m².

The above consumption figures are intended as a guide only and may be higher on very rough or porous substrates.

Maintenance

Regular cleaning and maintenance will prolong the life of all resin floors, enhance the appearance and reduce the tendency to retain dirt.

Specialised floor cleaning equipment and chemicals are available and the suppliers are able to offer advice on appropriate cleaning regimes. Consult technical service for detailed information.

Cleaning agent

Re-usable tools should be carefully cleaned immediately after use with water. Once the material has cured mechanical cleaning is required which is made easier by immersion of the tools in Solvent 2.

Storage

Store under cover, out of direct sunlight and protect from extremes of temperatures.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF Construction Chemicals SA's Technical Services Department.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product's fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

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Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals SA representative. BASF Construction Chemicals SA reserves the right to have the true cause of any difficulty determined by accepted test methods

Quality and care

All products originating from BASF Construction Chemicals' SA facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001:2000.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

As all BASF's technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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