



The Chemical Company

MasterTop® BC 325 N

Elastic, Two Component, Solvent Free Self Levelling Polyurethane Coating

Description of the Product

MasterTop® BC 325 N, is a two component, solvent free self levelling polyurethane based floor coating designed to create a colorful, comfortable environment.

Fields of Application

Forms the basis for the **MasterTop® 1325** series polyurethane based comfort floor coating system.

- Hospitals and nursing homes
- Schools
- Libraries
- Meeting rooms
- Offices
- Hotels
- Exhibition halls
- Physician practices
- Shopping centers

Features and Benefits

- Easy to apply
- Excellent adherence
- Resistant to cigarette burns
- Anti-microbial surface
- Easy to clean to create a hygienic environment
- Easy to clean and maintain
- Crack bridging properties
- Elastic
- Sound absorbent (4 db depending on the application thickness)
- Attractive finish
- Fulfills AgBB criteria

Application Procedure

Preparation of Substrate

The concrete substrates on which the product is going to be applied should be C25 or dosage of 350 minimum and the concrete should be 3 weeks old at least. After the preparation of the surface, the tensile strength of the substrate

Technical Data

| | |
|--|---------------------------|
| MasterTop® BC 325 N Part A | Polyurethane Resin |
| MasterTop® BC 325 N Part B | Polyurethane Hardener |
| Color | Various RAL Colors |
| Mixed Density | 1.29 kg/liters |
| Mixed Viscosity (Brookfield/Sp.5/20U) | 1500 mPas |
| Working time | 30 min. |
| Re-coating interval/ready for traffic | Min. 12 hours Max. 2 days |
| Fully cured/ready for exposure to chemicals | 7 days |
| Permissible ambient and substrate temperatures | Min. 5°C Max. 30°C |
| Max. permissible relative humidity | 75% |
| Shore A hardness (7 days) | 79 |
| Tensile strength | 7,0 N/mm ² |
| Elongation | 150% |

The above figures are valid for 23°C and intended as a guide only and should not be used as a basis for specifications.



The Chemical Company

MasterTop® BC 325 N

should exceed 1.5 N/mm² (tested with an approved pull-off tester at a load rate of 100 N/s). The residual moisture content of the substrate should not exceed 4% (tested with e.g. CM device). A damp proof course should be installed properly and be inert. The substrate temperature should remain +8°C minimum and the temperature of the substrate should at least be 3 K above the current dew point. All substrates should be structurally sound, dry and clean. Oil, grease and other adhesion impairing contaminants should be removed. Bubble formation on the surfaces which absorbed oil should be removed with the usage of a blastrack or rotatiger. Oil contaminated substrates should first be pre-cleaned with an emulsifying cleaning detergent according to the supplier's instructions. Finally, the concrete or cement screed surface should be cleaned by using a high pressured water jet and excess water should be removed by a wet/dry vacuum cleaner.

Mixing

MasterTop® BC 325 N is supplied as ready to use kits in the exact ratio. Before mixing, precondition both A and B parts to the temperature of +15°C - +25°C. **MasterTop® BC 325 N** part A is pigmented. Mix the part A with an epoxy/polyurethane paddled drill at 300-400 rpm for 3-4 minutes until a homogenous color is achieved without causing air bubbles. Pour the entire contents of part B into the container of part A; make sure that there is no product left in the part B package. Scrape well the sides and the bottom of the container to ensure a thorough mixing. After mixing **MasterTop® BC 325 N** parts for 3-4 minutes, pour the mix into a fresh container, set it aside for a while and mix for another minute. During **MasterTop® BC 325 N** application, if needed, 0,1 - 0,3 mm quartz

sand at a weight ratio of 1/0,3 can be added.

Mixing Ratio

| MasterTop® BC 325 N | Part A | Part B |
|----------------------------|---------------|---------------|
| Mixing Ratio | 23,3 kg | 6,7 kg |
| Mixed Density | 1.29 kg/lt | |

Application Method

MasterTop® BC 325 N should be applied using a notched trowel to obtain the desired thickness. When the coating reaches the required consistency, any entrapped air should be released with a spiked roller.

Coverage

MasterTop® BC 325 N forms the basis for **MasterTop® 1325** series polyurethane comfort coating systems. The consumption differs depending on the use within the system. System solutions should be checked for consumption.

Watch Points

- Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +10°C or above +30°C.
- The materials to be used at the appropriate temperatures should be brought and stored in the application area 1-2 days prior to the application and enabled to adjust the ambient conditions.
- In extremely cold conditions, heaters should be used to increase the ambient and the workability of the product, the packages should be preconditioned to +20°C - +25°C to become ready to use.
- Epoxy and polyurethane based floor coatings should be applied by specialists.
- The reaction and workability times of resin **MasterTop® BC 325 N** based systems depend



The Chemical Company

MasterTop® BC 325 N

on the ambient and substrate temperatures as well as the relative humidity. Under lower temperatures, the chemical reaction times are prolonged and this increases the pot life, coating interval and the working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and the above mentioned times decrease accordingly. For the material to be cured properly, the ambient and the substrate temperatures should not fall below the specified limits. After the application, the material should be protected from direct contact with water for 24 hours minimum. Within this period, a contact with water may cause a surface carbonation and/ or tackiness; both of which will cause the coating to lose its characteristics. In such cases, the overall coating should be removed from the floor and renewed.

- **MasterTop® BC 325 N** is supplied in working packs which are pre-packaged in the exact ratio. No solvent should be added. Mixing should be done with a mechanical drill at 300-400 rpm with epoxy/polyurethane mixing paddles.
- **DO NOT MIX BY HAND.**
- After the first mix, contents should be poured into a clean container and mixed once again
- The empty packs should be consolidated and disposed properly in order to prevent reusing of the packages.

Cleaning of Tools

Used tools and equipment must be cleaned carefully with an appropriate solvent. Once cured **MasterTop® BC 325 N** can only be removed by mechanical means.

Packaging

30 kg set
Part A: 23.3 kg drum
Part B: 6.7 kg drum

Storage

The product should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 3 palletes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palletes should not be placed on top of each other during long term storage. Shelf Life The shelf life is 6 months from the date of production under suitable storage conditions. Opened packages should be stored under suitable storage conditions and used within 1 week.

Health and Safety Precautions

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.



The Chemical Company

MasterTop® BC 325 N

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge **BASF Yapi Kimyasallari Sanayi A.Ş.** is only responsible for the quality of the product. **BASF Yapi Kimyasallari Sanayi A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones (08/2013).