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MasterTop® BC 372

A Two Component, Solvent Free, Epoxy Based Self Leveling Floor Coating with Low Emissions (AgBB Conformity)

Description of the Product

MasterTop® BC 372 is a solvent free, pre-filled and pigmented, two component, self-leveling, epoxy based coating.

Fields of Application

MasterTop® BC 372 is base coat of **MasterTop® 1273** series epoxy coating systems. **MasterTop® BC 372** can be filled with oven dried silica sand up to 1:0.7 by weight depending on the temperature and applying thickness you require on the job site.

- Medium to heavy industrial wear
- On concrete and cement screeds
- Warehouses
- Production areas
- Laboratories
- Pharmaceutical and other medical or laboratory situations

- Supermarkets and shopping malls
- Aircraft hangars
- Exhibition halls
- Carparks

Features and Benefits

- Exhibits excellent mechanical strength
- Application as self-leveling body coat on smooth surfaces and as top coat on broadcasted surfaces
- Low emissions: AgBB conform
- Extremely resistant if exposed to medium to heavy industrial wear
- Abrasion resistant
- Easy to apply
- Easy to clean and maintain
- Resistant to water, sea and waste water, variety of alkalis, diluted acids, brine, mineral oils, lubricants and fuels.

Technical Data

MasterTop® BC 372 Part A MasterTop® BC 372 Part B	Epoxy Resin Epoxy Hardener
Colour	Various RAL Colors
Mixed Density	1,60 kg/liters
Mixed Viscosity	1850 mPas
Shore D hardness (7 days)	81
Compressive Strength	79 N/mm ²
Abrasion Resistance (Taber)	28 mg
Pot life	30 min.
Re-coating interval/ready for traffic	Min. 10 hours Max. 2 days
Fully cured/ready for exposure to chemicals	5 days
Max. permissible relative humidity	75 %

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



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Application Procedure

Preparation of Substrate

MasterTop® BC 372 is a part of the **MasterTop® 1273** epoxy coating systems. Before applying **MasterTop® BC 372** substrates should be primed with an appropriate MasterTop primer. 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 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 intact. The substrate temperature should remain +10°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 372 is supplied as ready-to-use kits in the exact ratio. Before mixing, precondition both A and B parts to the temperature of approximately +15°C - +25°C. **MasterTop®**

BC 372 part A is pigmented. Mix part A with an epoxy/polyurethane paddled drill at 300 -350 rpm for 2-5 minutes until a homogenous colour is obtained 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 the sides and the bottom of the container well to ensure a thorough mixing. After mixing **MasterTop® BC 372** parts for 3-4 minutes, pour the mix into a fresh container, set it aside for a while and mix for another minute.

Mixing Ratio

MasterTop® BC 372	Part A	Part B
Mixing Ratio	25.5 kg	4.5 kg
Mixed Density	1.60 kg/l	

Application Method

MasterTop® BC 372 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 372 is a base coat for **MasterTop® 1273**, **MasterTop® 1273 R** coating systems. Coverage may vary. Please refer to the system analysis data sheets.

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



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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 - +25°C to become ready to use.
- Epoxy and polyurethane based floor coating should be applied by specialists.
- The reaction and workability times of resin based systems depend on the ambient and substrate temperatures as well as the relative humidity. Under lower temperatures, the chemical reaction times are prolonged and this increases pot life, coating interval and working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and above mentioned times decrease accordingly. For the material to be cured properly, the ambient and the substrate temperatures should not fall below specified limits. After the application, the material should be protected from direct contact with water for 24 hours minimum. Within this period, 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 372** is supplied as ready-to-use kits. No solvent etc should be added during application.
- Mixing is 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 fresh 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 372** can only be removed by mechanical means.

Packaging

30 kg set
Part A: 25.5 kg drum
Part B: 4.5 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 palettes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palettes should not be placed on top of each other during long term storage.

Shelf Life

The shelf life is 12 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 Instructions

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,



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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.

Disclaimer

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