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MasterTop® BC 370

Two Component, Solvent-free, Epoxy Based Self-leveling Floor Coating

Description of the Product

MasterTop® BC 370, is an industrial, solvent-free, pre-filled, two component, self-leveling, epoxy based coating.

Fields of Application

MasterTop® BC 370 is base coat of **MasterTop® 1270** series epoxy coating systems.

- Warehousing and storage
- Production and assembly halls
- Laboratories
- Pharmaceutical and other medical or laboratory situations.
- Supermarkets and shopping centers
- High technology industrial use
- Automotive and aerospace industries
- Exhibits and fairs
- Garages

Features and Benefits

- Easy to apply
- Exhibits excellent mechanical strengths and anti-static properties
- Abrasion resistant, allows metal wheeled traffic.
- Anti-bacterial surface.
- Hygienic, easy to clean and maintain

Chemical Resistance

MasterTop® BC 370 is resistant to many chemicals; lube oil and diluted acids, salt solutions. If required, chemical resistance chart can be requested from our Technical Service.

Application Procedure

Preparation of Substrate

MasterTop® BC 370 is a part of **MasterTop® 1270** epoxy coating systems.
Before applying **MasterTop® BC 370** the

Technical Data

MasterTop® BC 370 Part A **MasterTop® BC 370** Part B	Epoxy Resin Epoxy Hardener
Color	Miscellaneous RAL
Mixed density	1.40 kg/liters
Viscosity	1600 mPas
Substrate temperature	+10°C +30°
Working time	30 minutes
Re-coating interval +10°C +20°C	 min. 15 hour- max. 2 day min. 8 hour- max. 2 day
Fully cured	7 days

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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MasterTop® BC 370

substrates should be primed with appropriate **MasterTop®** materials. 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 sur-face, the tensile strength of the substrate should exceed 1.5 N/mm^2 (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 inact. The substrate temperature should remain +8ºC 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 370 is supplied as ready to use kits in the exact ratio. Before mixing, precondition both A and B parts to the temperature of +15 - +25ºC. **MasterTop® BC 370** 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 370** parts for 3-4 minutes, pour the mix into a fresh container, set it aside for a while and mix for another minute.

If desired, 1/ 0.5 oven dried silica (0.1-0.3 mm or 0.3-0.8 mm) is broadcasted on to the still wet primer **MasterTop® BC 370** in order to improve adhesion.

Mixing Ratio

MasterTop® BC 370	Part A	Part B
Mixing Ratio	25 kg	5 kg
Mixed Density	1.40 kg/lt	

If 1/0.5 silica, mixed density of **MasterTop® BC 370** reaches 1.80 kg/liters.

Application Method

After mixing **MasterTop® BC 370** is spread to the substrate using a notched trowel. The teeth size should be selected according to the required thickness of layer. To remove air bubbles, use a spike roller.

Coverage

MasterTop® BC 370 is base coat for **MasterTop® 1270, MasterTop® 1270 R** coating systems. Coverage may vary. Please refer to the Coverage data sheets. For exact Coverage amounts 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

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temperature is below +10 or above +30ºC.

- 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 - +25ºC to become ready to use.
- Epoxy and polyurethane based floor coatings 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 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.
- Permissible relative humidity %75.
- **MasterTop® BC 370** 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 fully cured **MasterTop® BC 370** can only be removed by mechanical means.

Packaging

30 kg set
Part A: 25 kg drum
Part B: 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.

The Chemical Company

MasterTop® BC 370

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 ofswallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area.

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).

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GOSB İhsandede Caddesi 1000. Sokak No=1
Gebze / Kocaeli TURKİYE

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EN 1504 - 2 : 2004

Epoxy based self levelling compound

Permeability to CO_2	$CO_{2\ SD}$ permeability > 50m
Permeability to water vapour	Class III:SD>50 m
Capillary absorption and permeability to water	w<0,1 kg/m².√h
Adhesion strength by pull-off test	Rigid Systems With traffic >2,0 N/mm²(1,5 min)
Abrasion resistance	10% improvment in abrasion resistance in comparison with a non impregnated sample
Impact resistance	After loading no cracks and delamination Class I:4 Nm

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Gebze / Kocaeli TURKİYE

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EN 13813
SR E/E_{fl} IR4 Nm <3000 MG F20 C70 B2

Synthetic resin screed/coating

Fire Behaviour	E/E_{fl}
Impact Resistance	IR4 Nm
Wear Resistance TABER	<3000 MG
Flexural Strenght	F20
Compressive Strenght	C70
Bonding Strenght	B2

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