MasterTop® BC 372

A two component, non-solvented (total solid), epoxy self-leveling floor coating with low emissions

PRODUCT DESCRIPTION

MasterTop® BC 372 is a non-solvented, pre-filled and pigmented, two-component, self-levelling epoxy coating.

FIELDS OF APPLICATION

MasterTop® BC 372 is applied indoors as a self-levelling coating and suitable for medium to heavy industrial wear. **MasterTop® BC 372** is applied to substrates such as concrete and cement screeds. **MasterTop® BC 372** can be filled with sand up to 1 : 0.7 by weight depending on the temperature and the applying thickness you require on the job site. It is use in the system **MasterTop® 1273**, **MasterTop® 1273 R** and **MasterTop® 1273 E**.

FEATURES AND BENEFITS

- Exhibits excellent mechanical strength
- Application as self-levelling body coat on smooth surfaces and as top coat on broadcasted surfaces
- Low emissions
- extremely resistant if exposed for medium to heavy industrial wear
- abrasion resistant
- easy to apply
- easy to clean and maintain
- can be thickened by adding the thickening agent **MasterTop® TIX 9** (1,8 % based on the total quantity of part A)
- extremely resistant to water, sea and waste water, as well as resistant to a variety of alkalis, diluted acids, brine, mineral oils, lubricants and fuels.
- yellowing, when used in UV-exposed areas, does not impair the technical properties of the body coat (the application of a pigmented top coat like **MasterTop® TC 442W P** is recommended to prevent the yellowing of the surface and to improve the scratch resistance)

APPLICATION METHOD

MasterTop® BC 372 is supplied in working packs which are prepackaged in the exact ratio. Before mixing, precondi- tion both A and B components to a temperature of approx- imately 15 to 25°C.
Pour the entire contents of part B into the container of part A. DO NOT MIX BY HAND. Mix with a mechanical drill and paddle at a very 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. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. DO NOT WORK OUT OF THE ORIGINAL CONTAINER. 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, **MasterTop® BC 372** is applied to the prepared substrate, using a notched trowel or scraper. The teeth size should be selected according to the thickness of layer required (take care not to exceed max. Recommend coverage rate). To remove air bubbles, spike roll directly after application.
On broadcasted surfaces, **MasterTop® BC 372** will be applied with a roll.
MasterTop® BC 372 can be thickened by adding 1,8 % **MasterTop TIX 9** in part A and mixing for 2 minutes. Then pour the part B and follow the “application method” as previously described.
In that case, **MasterTop BC 372** will be applied on the floor with notched trowel and structured roll.

The curing time of the material is influenced by the ambi- ent, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application tem- perature should not fall below the minimum. After application, the material should be protected from direct contact with water for approx. 24h (at 20°C). Within this period, contact with water can cause a surface bloom and/or surface tackiness, both of which must be removed. Car- bamate has a marked effect of the coating and has to be removed. Apart from these limitations, the respective guidelines for this use of reactive resins in the concrete trade must be observed.

SUBSTRATE PRE-TREATMENT

MasterTop® BC 372 must be applied to primed or scratch primed substrate. The substrate must be load bearing, free of loose and brittle particles as well as substances, which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. Pre-treatment is only necessary when the re-coating interval of the primer has been exceeded. If necessary, the primer must be renewed. After surface preparation the tensile strength of the sub-strate should exceed 1.5 N/mm2 (check with an approved pull-off tester i.e. "Herion" at a load rate of 100 N/s). the residual moisture content of the substrate must not exceed 4% (check with e.g. CM device).
The temperature of the substrate must be at least 3K above the current dew point temperature. A damp proof course must have been properly installed and intact. In addition to this, the respective guidelines for the applica- tion of reactive resins on substrates have to be followed.

CONSUMPTION

<u>As self-levelling body coat on smooth surfaces:</u>
ca. 3,3 – 3,7 kg/m^2 depending on the filling ratio (total consumption including sand, filling ratio between 1:0,5 and 1:0,7 with quartz sand 0,1-0,3 mm).
<u>As top coat on broadcasted surfaces:</u>

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ca. 0,8 – 1,2 kg/^{m2} (application with a roll without sand filling) depending on the system and the roughness of the surface.
For more information, please refer to the System Data Sheets **MasterTop® 1273**, **MasterTop® 1273 R** and **MasterTop® 1273 E**.

CLEANING AGENT

Re-usable tools must be cleaned carefully with **MasterTop® CLN 44** or with e.g. isopropanol.

PACKAGING

MasterTop® BC 372 is supplied in 30 kg working packs. Supply in drums possible (only on demand).

MasterTop® BC 372	Part A	Part B
Mixing Ratio	25,5 kg	4,5 kg

COLOUR

MasterTop® BC 372 is available in a wide range of RAL colours. For more information, please consult your local sales office.
Following RAL colours are available on stock: RAL: 7001, 7030, 7032, 7035, 7040 and 7042.

STORAGE

Store in original drums under dry conditions and a temperature between 15-25°C. Do not expose to direct sunlight and prevent the temperature from falling below the above mentioned range (crystallisation). For maximum shelf life under these conditions, see „Best before. “ label.

EU REGULATION 2004/42 (DECOPAINT GUIDELINE)

This product conforms to the EU directive 2004/42/EG (Deco-Paint directive) and contains less than the maximum allowable VOC Limit (Stage 2, 2010). According to the EU directive 2004/42, the maximum allowable VOC content for the Product Category IIA / j type sb is 500 g/l (Limit: Stage 2, 2010). The VOC content for **MasterTop® BC 372** is < 500 g/l (for the ready to use product).

Technical Data*				
Karışım Oranı			by weight.	100:18
Yoğunluk	Part A Part B Mixed	at 23°C at 23°C at 23°C	g/cm^3 g/cm^3 g/cm^3	1,72 1,02 1,60
Viskozite	Part A Part B Mixed	at 23°C at 23°C at 23°C	mPa.s mPa.s mPa.s	5600 150 1850
Pot-life		at 23°C	min	30
Re-coating interval/ready for traffic		at 10°C at 23°C	H D H d	Min. 30 Max. 3 Min. 10 Max. 2
Fully cured/ready for exposure to chemicals		at 20°C	d	5
Substrate and application temperatures			^{0}C ^{0}C	Min. 10 Max. 30
Max. permissible relative humidity		at any T°C	%	75
Technical data cured material*				
Shore-D hardness after 7 days				81
Taber abrasion after 28 days at 23°C		CS 10, 1KG, 1000U	mg	28
Fire classification according to ÖNORM EN 13501-1		Consumption: 200 g/m^2		A2fl-s1
Compressive strength		EN 12190	N/mm²	79

* The above figures are intended as a guide only and should not be used as a basis for specifications.

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WARNING AND PRECAUTIONS

In its cured state, **MasterTop® BC 372** is physiologically non-hazardous. The following protective measures should be taken when working with the material:
Wear safety gloves, goggles and protective clothing. Avoid contact with the skin and eyes. In case of eye contact, seek medical attention. Avoid inhalation of the fumes. When working with the product do not eat, smoke or work near a naked flame. For additional references to safety-hazard warnings, regulations regarding transport and waste management please refer to the relevant Material Safety Data Sheet. The regulations of the local trade as-sociation and/or other authorities, regulating safety and hygiene of workers handling epoxy resins must be ob-served.

CONTACT INFORMATION

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MASTERTOP BC 372

Beton Yapıların Korunması ve Tamiri İçin Mamuller ve Sistemler.

Bölüm:2 Beton için Yüzey Koruma Sistemleri

(Products and systems for the protection and repair of concrete structures

Part 2: Surface protection systems for concrete)

Prensipler: 1.3 Yabancı madde girişine karşı koruma, 2.2 Nem Kontrolü, 5.1 Fiziksel Direnç, 8.2 Nem içeriğini sınırlayarak direnci artırma amaçlı kaplama malzemesi

(Principles: 1.3 Protection against ingress, 2.2 Moisture control, 5.1 Physical resistance, 8.2 Increasing resistivity)

CO_2 Geçirgenliği (Permeability to CO2)	CO_2 S_D Geçirgenliği > 50m (CO_2 S_D permeability > 50m)
Su Buharı Geçirgenliği (Permeability to water vapour)	Sınıf III (Class III)
Kapiler Su Emme ve Su Geçirgenliği (Capillary absorption and permeability to water)	w<0,1 kg /m².√h
Çekip Koparma Deneyi Yoluyla Yapışma Dayanımı (Adhesion strength by pull-off test)	Rijit Sistemler Trafik yüküyle birlikte:>2,0 N/mm²(1,5 min) (Rigid Systems With trafficking:>2,0 N/mm²(1,5 min))
Aşınma Direnci (Abrasion Resistance)	Ağırlık Kaybı <3 g
Çarpmaya Direnç (Impact resistance)	Sınıf II : 10 Nm Deformasyon yok (Class II : 10 Nm No defor-mation)
Yangına karşı tepki (Reaction to fire)	D-s1;d0
Tehlikeli maddeler (Dangerous substances)	Madde 5.3 ' e uygun (Comply with clause 5.3)