

MasterTop[®] BC 372AS

A two component, non-solvented (total solid), self-leveling and anti-static epoxy flooring body coat according to EN 1081

DESCRIPTION

MasterTop BC 372AS is a non-solvented (total solid), pre-filled and pigmented, two-component, self-levelling and anti-static epoxy coating.

TYPICAL APPLICATIONS

MasterTop BC 372AS is for indoor use where an anti-static floor coating is required. **MasterTop BC 372AS** is suitable for applications to mineral substrates such as concrete or cement mortar screeds, primed with **MasterTop P 687W AS** (conductive primer). **MasterTop BC 372AS** resists medium to heavy industrial traffic.

ADVANTAGES

- conductive floor coating
- exhibits excellent mechanical strength and antistatic properties
- abrasion resistant

- easy to apply
- easy to clean and maintain
- 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

PACKAGING AND COLORS

MasterTop BC 372AS is supplied in 29.9kg working packs.

Note: Please note that the part A of MasterTop BC 372AS is the same as MasterTop BC 372 part A. The conductive fibres are included in Part B.

MasterTop BC 372AS is available in a wide range of RAL colours. For more information, please consult Master Builders Solutions Technical Department.

TYPICAL PROPERTIES*

Mix ratio			by weight	100 : 17
Density	Part A	at 23°C	g/cm ³	1.70
	Part B	at 23°C	g/cm ³	1.01
	Mixed	at 23°C	g/cm ³	1.45
Viscosity	Part A	at 23°C	mPa.s	5600
	Part B	at 23°C	mPa.s	510
	Mixed	at 23°C	mPa.s	2200
Pot life		at 23°C	min	30
Re-coating interval / ready for traffic		at 20°C	h d	min. 15 max. 2
Fully cured/ready for exposure to chemicals		at 20°C	d	5
Substrate and application temperatures		at 23°C	°C	min. 10 max. 30
Max. permissible relative humidity		at any T°C	%	75

Technical data cured material*

Shore-D hardness after 28 days			80
Taber abrasion after 28 days at 23°C	CS 10, 1KG, 1000U	mg	50
Resistivity (Resistance to ground)	EN 1081	ohm	10 ⁴ - 10 ⁶

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

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APPLICATION GUIDELINES

MasterTop BC 372AS is supplied in working packs which are pre-packaged in the exact ratio. **The part A is the same as MasterTop BC 372.** The Part B contains the conductive fibres. **Therefore you have to mix MasterTop BC 372 part A and MasterTop BC 372AS part B. Pay attention to use MasterTop BC 372AS part B.** Before mixing, precondition both A and B components to a temperature of approximately 15 to 25°C. **Mix first the part B separately in order to ensure the homogeneity of the conductive fibers.** Pour the entire contents of Part B into the container of Part A. It is important to ensure that the component B completely runs out with the conductive fibers. **If necessary, part B must be scratched out with the last conductive fibers.**

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 372AS** is applied to the substrate coated with

MasterTop P 687W AS conductive primer, 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 cover-age rate). To remove air bubbles, spike roll 5-10min. after application.

The curing time of the material is influenced by the ambient, 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 temperature 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. Carbamate has a marked effect on the conductivity of the coating and has to be removed. In addition to this, the respective guidelines for the application of reactive resins on substrates must be observed.

SUBSTRATE PRETREATMENT

MasterTop BC 372AS must be applied to primed or scratch primed substrate. The substrate must be load bearing, free of loose and brittle particles as well as sub-stances, 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 conductive layer has been exceeded. If necessary, the conductive layer must be renewed.

After surface preparation the tensile strength of the substrate 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 3 K above the current dew point temperature. A damp proof cause must have been properly installed and intact. In addition to this, the respective guidelines for the application of reactive resins on substrates must be observed.

CONSUMPTION

2.3 – 2.6 kg/m² according to system, refer to System Data Sheets **MasterTop 1273 AS**.

CLEANING

Re-usable tools must be cleaned carefully with a suitable thinner (Xylene / MEK / Acetone) or with e.g. isopropanol.

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STORAGE AND SHELF LIFE

Store in original containers under dry conditions at 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 500g/l (Limit: Stage 2, 2010). The VOC content for **MasterTop BC 372AS** is <500g/l (for the ready to use product).

HEALTH AND SAFETY

In its cured state, **MasterTop BC 372AS** 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 association and/or other authorities, regulating safety and hygiene of workers handling epoxy resins must be followed.

CE-marking according to EN 13813

	
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EN 13813: 2002	
EN 13813: SR-B1,5-AR1-IR4	
Synthetic resin screed for internal uses	
Essential characteristics	Performance
Fire behavior	Efl [#]
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	<AR 1
Bond strength	>B 1,5
Impact resistance	>IR 4
Impact sound insulation	NPD
Sound absorption	NPD
Heat insulation	NPD
Chemical resistance	NPD
Slip/Skid resistance	R9, R10
Emissions behavior	Ü-Z: Z-156.605-685

NPD = No Performance Determined

Performance determined in System **MasterTop 1273 AS**

[#] Performance without any further testing

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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Disclaimer: the TÜV mark relates to certified management system and not to the product mentioned on this datasheet



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