

MasterTop BC 372ESD

A two component, non-solvented (total solid), self-leveling and ESD epoxy floor coating according to IEC 61340-5-1

PRODUCT DESCRIPTION

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

FIELDS OF APPLICATION

MasterTop BC 372ESD is for indoor use where an ESD floor coating according to IEC 61340-5-1 is required. MasterTop BC 372ESD is suitable for applications to mineral substrates such as concrete or cement mortar screeds, primed with MasterTop P 687W AS (conductive primer). MasterTop BC 372ESD resists medium industrial traffic

FEATURES AND BENEFITS

- ESD conductive floor coating according to IEC 61340-5-1
- Exhibits good mechanical strength and anti-static properties
- Abrasion resistant
- Easy to apply
- Easy to clean and maintain
- High resistant to water, sea and waste water, as well as resistant to a variety of alkalis, diluted acids, brine, mineral oils, lubricants and fuels.

APPLICATION METHOD

MasterTop BC 372ESD 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 372ESD Part B. Pay attention to use MasterTop BC 372ESD Part B.** Before mixing, precondition both A and B components to a temperature of approximately 15 to 25°C.

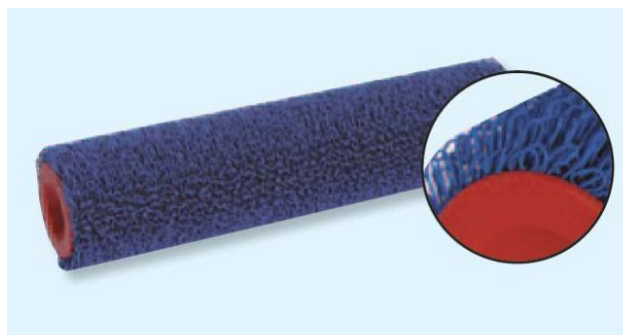
Before mixing, pre-mix first the Part B separately in order to ensure the homogeneity of the conductive fibers. Pre-mix Part A too. Pour the entire contents of Part B into the container of Part A. It is important to ensure that the Part B completely runs out with the conductive fibers. **If necessary, 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 and clean container and mix for another minute.

After mixing, MasterTop BC 372ESD is applied to the substrate coated with MasterTop P 687W AS conductive primer, using a **scraper with toothed rubber blade**. The teeth size should be selected according to the thickness of layer required, taking care **not to exceed the consumption mentioned in the TDS**. As a general advice, number 7, 8 and 9 are the right ones. After spreading the material, use a **loop roller** to even the surface.



To remove air bubbles, spike roll 5 – 10 minutes 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.

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SUBSTRATE PRE-TREATMENT

MasterTop BC 372ESD 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 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/mm^2 (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 application of reactive resins on substrates must be observed.

CONSUMPTION

2 kg/m^2 according to system, refer to System Data Sheets MasterTop 1273 ESD. **Do not to exceed this consumption !**

CLEANING AGENT

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

PACKAGING

MasterTop BC 372ESD is supplied in 31.1 kg working packs.

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

COLOUR

MasterTop BC 372ESD is available in a wide range of RAL colours. For more information, please consult your local sales office. **Please note, that fiber containing Part B will modify the color shade of the Part A resulting on a deviation (darker) of the RAL color.**

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 372ESD is < 500 g/l (for the ready to use product).

WARNING AND PRECAUTIONS

In its cured state, MasterTop BC 372ESD 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.

The regulations of the local trade association and/or other authorities, regulating safety and hygiene of workers handling epoxy resins must be observed.

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Mitglied der



TECHNICAL DATA

Mix ratio			by weight.	100 : 22
Density	Part A	at 23°C	g/cm ³	1,70
	Part B	at 23°C	g/cm ³	1,05
	Mixed	at 23°C	g/cm ³	1,58
Viscosity	Part A	at 23°C	mPa.s	5000
	Part B	at 23°C	mPa.s	680
	Mixed	at 23°C	mPa.s	3100
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			°C	min. 10
			°C	max. 30
Max. permissible relative humidity		at any T°C	%	75
TECHNICAL DATA CURED MATERIAL*				
Shore-D hardness after 28 days				70
Taber abrasion after 28 days at 23°C	CS 10, 1KG, 1000U		mg	15
Resistance to ground	IEC 61340-4-1		Ohm	< 10 ⁹
Body voltage (walking test)	IEC 61340-4-5		Volt	< +/- 100
Resistance Footwear/Person/Floor	IEC 61340-4-5		Ohm	< 10 ⁹

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

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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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