

MasterTop® BC 375 N AS

2K-PU coating, pigmented, anti-static, non-solvented, low emission, self-levelling

PRODUCT DESCRIPTION

MasterTop® BC 375NAS is an anti-static, non-solvented, low emission, pre-filled, 2K-self-levelling polyurethane floor coating.

FIELDS OF APPLICATION

MasterTop® BC 375NAS is used indoor when an anti-static floor coating for light to medium traffic is required. **MasterTop® BC 375NAS** is suitable for applications to mineral substrates such as concrete or cement mortar floor screeds, which have been primed with a 2K-EP primer, laid with copper strips and primed with the conductive primer **MasterTop® P 687 WAS**. **MasterTop® BC 375NAS** can also be applied to bituminous substrates with special primers like **MasterTop® P 660** or **MasterTop® BC 375N**. It is part of system **MasterTop® 1324 ESD** for ESD requirements according to EN 61340-5-1 or in the system **MasterTop® 1324 AS** according to EN 1081. **MasterTop® BC 375NAS** fits to the low emission of AgBB standard.

FEATURES AND BENEFITS

- low emission according to AgBB
- conductive floor coating
- exhibits excellent mechanical and
- anti-static properties
- good abrasion resistance
- easy to clean and maintain
- low emission (AgBB)
- static crack bridging properties
- yellowing, when used in UV-exposed areas, does not impair the technical properties of the body coat

APPLICATION METHOD

MasterTop® BC 375NAS is supplied in working packs, which are pre-packaged in the exact ratio. **The part A is the same as MasterTop® BC 375N**. The Part B contains the conductive fibres. **The refore you have to use MasterTop® BC 375N part A and MasterTop® BC 375 NAS part B. Pay attention to use MasterTop® BC 375 NAS 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 375 NAS** is applied to the substrate coated with the conductive primer **MasterTop® P 687 WAS**, using a notched trowel or scraper. The tooth size should be selected according to the required layer thickness (take care not to go below min. recommend coverage rate or to exceed max. Recommend coverage rate, **this has a direct influence on the antistatic values**). 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, the substrate and the 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 of **MasterTop® P 687 WAS** has an effect on the conductivity of the coating and has to be removed.

After mixing, **MasterTop® BC 375N** is applied to the substrate coated with a primer, using a notched trowel or scraper. The tooth size should be selected according to the required layer thickness (take care not to go below min. recommend coverage rate or to exceed max. Recommend coverage rate). To remove air bubbles, spike roll 5- 10 min. 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, the substrate and the 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

SUBSTRATE PRE-TREATMENT

MasterTop BC 375NAS must be applied to substrates primed with the conductive primer **MasterTop P 687W AS**. 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 ex-

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ceeded. 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 3K above the current dew point temperature. A damp proof has to be installed and must be intact.

CONSUMPTION

ca. 2,0 – 2,5 kg/m²

Please note the systems **MasterTop® 1324 AS** and **MasterTop® 1324 ESD**.

The consumption may not be below or over the above value to ensure the conductivity. If necessary the substrate must be pre-levelled.

CLEANING AGENT

Re-usable tools must be cleaned carefully with **MasterTop® CLN 40** or with solvent naptha.

PACKAGING

MasterTop® BC 375N AS is supplied in 30 kg working packs.

Note: Please note that the part A of MasterTop® BC 375 NAS is the same as MasterTop® BC 375 N part A. The conductive fibres are included in Part B.

COLOUR

MasterTop® BC 375N AS is available in a wide range of RAL colours. For more information, please consult your local sales office.

RAL 7032 and 7035 are available on stock.

Note: Aromatic polyurethanes as **MasterTop® BC 375N** tend under UV influence (in indoor and outdoor areas) to yellowing.

STORAGE

Store in original drums, under dry conditions and a temperature ranging from 15 - 25°C. Do not expose to direct sunlight and keep the temperature within the above mentioned range. Under these conditions the material has a shelf life of 6 months. 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 and contains less than the maximum allowable VOC limit (Stage 2, 2010) According to the EU directive 2004/42, the maximum VOC content for the product category IIA / j type sb is 500 g/l (Limit: Stage 2, 2010).

The VOC content for **MasterTop® BC 375N AS** is < 500 g/l (for the ready to use product).

Technical Data*				
Mix ratio			by weight	100:22
Density	Part A	at 23°C	g/cm ³	1,51
	Part B	at 23°C	g/cm ³	1,22
	Mixed	at 23°C	g/cm ³	1,45
Viscosity	Part A	at 23°C	mPa.s	Ca. 5400
	Part B	at 23°C	mPa.s	Ca. 1700
	Mixed	at 23°C	mPa.s	Ca. 3000
Pot-life		at 23°C	min	30
Re-coating interval/ready for traffic		at 23°C	H d	Min. 16 Max. 3
Fully cured/ready for exposure to chemicals		at 23°C	d	7
Substrate and application temperatures		at 23°C	°C	Min. 5
			°C	Max. 30
Max. permissible relative humidity			%	75
Technical data cured material*				
Shore-D hardness after 28 days				70
Resistivity to ground with MasterTop TC 409WESD		EN 1081	Ohm	10 ³ -10 ⁶
		EN 61340-5-1	Ohm	<10 ⁹
		EN 61340-4-5	V	<100

* 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

MasterTop® BC 375N AS is physiologically nonhazardous in its cured condition. The following protective measures should be taken when working with the material:

Avoid inhaling the fumes and contact with the skin. Wear safety gloves and goggles. 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 safely and hygiene of workers handling polyurethane and isocyanides must be observed.

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.

All descriptions, drawings, photographs, data, ratios, weights i.e. stated herein can be changed without advance notice and do not represent the condition of the product as stipulated by contract. It is the sole responsibility of the recipient of our products to observe possible proprietary rights as well as existing laws and provisions. The reference of trade names of other companies is no recommendation and does not exclude the use of products of similar type. Our information only describes the quality of our products and services and is no warranty. Liability is accepted for incomplete or incorrect particulars in our data sheets only in the event of intent or gross negligence, without prejudice to claims under product liability laws.

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SUSTAINABILITY

In our approach to develop and produce sustainable products and solutions to our customer, we are glad to inform you that **MasterTop® BC 375NAS** is not only registered in the DGNB (German Sustainable Building Council) Navigator platform but also exhibits a DGNB Navigator label.

The DGNB Navigator Label allows us to demonstrate our commitment to sustainability and gives you all the transparency and required information about our flooring products to build sustainable projects.

For further information, please do not hesitate to contact us and/or to visit the following DGNB websites:

<http://www.dgnb.de/en/>

www.dgnb-navigator.de/Navigation/Home?language=en




Mitglied der



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CE MARKING ACCORDING TO EN 13813

	
Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
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237510	
EN 13813: 2002	
EN 13813: SR – B1,5 – AR1 – IR4	
Synthetic resin screed for internal uses	
Essential characteristics	Performance
Fire behavior	Cfl-s1
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	< AR 1
Bond strength	> B 1,5
Impact resistance	> IR4
Impact sound insulation	NPD
Sound absorption	NPD
Heat insulation	NPD
Chemical resistance	NPD

NPD = No performance determined Performance determined in
 System **MasterTop 1324 AS**