

MasterTop[®] BC 375NAS

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 687WAS**.

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

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. Therefore you have to use **MasterTop BC 375N** part A and **MasterTop BC 375NAS** part B. Pay attention to use **MasterTop BC 375NAS** 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 375NAS** is applied to the substrate coated with the conductive primer **MasterTop P 687WAS**, 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

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removed. Carbamate of **MasterTop P 687WAS** 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 5-10min. 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.

SUBSTRATE PRETREATMENT

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

CONSUMPTION

ca. 2.0 – 2.55 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 THN 2** or with solvent naphta.

PACKAGING

MasterTop BC 375NAS is supplied in 30 kg working packs.

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

COLOUR

MasterTop BC 375NAS 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.

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TECHNICAL DATA*

Mix ratio			by weight	100 : 22
Density	Part A		g/cm ³	1.51
	Part B		g/cm ³	1.22
	mixed		g/cm ³	1.45
Viscosity	Part A	at 23°C	mPas	9200
	Part B	at 23°C	mPas	1700
	mixed	at 23°C	mPas	3000
Pot life		at 23°C	min	30
Re-coating interval / ready for traffic		at 23°C	h	min 16 max. 72
Fully cured/ready for exposure to chemicals		at 23°C	d	7
Substrate and application temperatures		at 23°C	°C	min. 5 max. 30
Max. permissible relative humidity			%	75

Technical data cured material

Shore-D hardness after 28 days				70
Resistivity to ground	EN 1081		Ohm	10 ³ -10 ⁶
	EN 61340-5-1		Ohm	< 10 ⁹
with MasterTop TC 409 W ESD	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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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 375NAS** is < 500 g/l (for the ready to use product).

WARNING AND PRECAUTIONS

MasterTop BC 375NAS is physiologically non-hazardous 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 safety and hygiene of workers handling polyurethane and isocyanides must be observed.

CE-MARKING ACCORDING TO EN 13813


0679
BASF Construction Chemicals (Schweiz) AG Industriestrasse 26, CH-8207 Schaffhausen
10
237508
EN 13813: 2002
Synthetic resin screed for use internally in buildings EN 13813 SR-B1,5-AR1-IR4
Essential characteristics: Performance Fire behaviour: Bfl-s1 Release of corrosive substances: SR Water permeability: NPD Wear resistance: <AR1 Bond strength: > B 1.5 Impact resistance: >IR4 Impact sound insulation: NPD Sound absorption: NPD Heat insulation: NPD Chemical resistance: NPD Slip/Skid resistance: R9 Emissions behavior: Ü-Z: Z-156.605-910

NPD = No Performance Determined

Performance determined in System **MasterTop 1324**

* Properties listed are based on laboratory controlled tests.

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BASF_CC-UAE/Top_BC375NAS_05_14/v2/05_14

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