

MasterTop[®] BC 375N

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

PRODUCT DESCRIPTION

MasterTop BC 375N is a non-solvented, low emission, pre-filled, 2K-self-levelling polyurethane floor coating.

FIELDS OF APPLICATION

MasterTop BC 375N is used indoors where medium to heavy traffic is required. **MasterTop BC 375N** is suitable for applications to mineral substrates such as concrete or cement mortar floor screeds, which have been primed with a 2K-EP primer. **MasterTop BC 375N** fits to the low emission of AgBB standard.

MasterTop BC 375N is part of the **MasterTop 1324** system

FEATURES AND BENEFITS

- low emission according to AgBB
- excellent self-levelling properties
- excellent mechanical properties
- abrasion resistant
- hard wearing
- excellent de-aeration
- easy to clean and maintain
- statical crack bridging
- good chemical resistance

APPLICATION METHOD

MasterTop BC 375N is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, pre-condition both A and B components to a temperature of approximately 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 CON-TAINER**. 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 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 375N must be applied to primed substrates. 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 layer before has been exceeded.

After surface preparation the tensile strength of the substrate should exceed 1.5N/mm² (check with an approved pull-off tester i.e. "Herion" at a load rate of 100N/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 refer to the system build-up of **MasterTop 1324**.

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CLEANING AGENT

Re-usable tools must be cleaned carefully with **MasterTop THN 2** or with solvent naphta.

PACKAGING

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

COLOUR

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

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.

TECHNICAL DATA*

Mix ratio			by weight	100 : 22
Density	Part A	at 23°C	g/cm ³	1.54
	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	10'000
	Part B	at 23°C	mPa.s	50-100
	mixed	at 23°C	mPa.s	2200
Pot life		at 23°C	min	30
Re-coating interval / ready for traffic		at 23°C	h	min 12 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
Elongation at break	DIN 51504	%		10

*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 (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 375N** is <500g/l (for the ready to use product).

WARNING AND PRECAUTIONS

MasterTop BC 375N 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 safely and hygiene of workers handling polyurethane and isocyanate must be observed.

* Properties listed are based on laboratory controlled tests.

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CE-marking according to EN 13813

	
1508	
BASF Construction Chemicals Europe AG Industriestrasse 26, CH-8207 Schaffhausen	
09	
237501	
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	<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 1324**

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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

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