

MASTERTOP BC 375 N

2K-PU coating, pigmented, solvent free, low emission, self-levelling

Product description

MASTERTOP BC 375 N is a solvent free, **low emission**, pre-filled, 2K-self-levelling polyurethane floor coating.

Fields of application

MASTERTOP BC 375 N is used indoors where medium to heavy traffic is required. MASTERTOP BC 375 N 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 375 N can also be applied to bituminous substrates with special primers like MASTERTOP P 660 or MASTERTOP BC 375 N. It is part of system MASTERTOP 1324, MASTERTOP 1324 AB, MASTERTOP 1324 AB and MASTERTOP 1324 R. MASTERTOP BC 375 N fits to the low emission of AgBB standard.

Features and benefits

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

Application method

MASTERTOP BC 375 N is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition 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 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 N 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.

Technical data*

Mixing ratio		by weight	100 : 22
Density		g/cm ³	1,45
Viscosity	at 20 °C	mPas	2800
Pot life (30-kg working pack)	at 20 °C	min.	30
Re-coating interval/Ready for traffic	at 20 °C	h d	min. 12 max. 3
Fully cured/Ready for exposure to chemicals	at 20 °C	d	7
Substrate and application temperatures		°C	min. 5
		°C	max. 30
Max. permissible relative humidity		%	75

Technical data cured material*

Shore-D-hardness	after 28 days		70
Elongation	DIN 53504	%	10

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

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. 24 h (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 375 N 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 1.5 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 has to be installed and must be intact.

Consumption

ca. 2,0 – 2,5 kg/m²

Please note the systems MASTERTOP 1324, 1324 NB, 1324 AB and MASTERTOP 1324 R.

Cleaning agent

Re-usable tools must be cleaned carefully with Cleaner 40 or solvent naphtha.

Packaging

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

Colours

MASTERTOP BC 375 N is available in a range of colours. Standard colours are: ca. RAL 1001, 1015, 6021, 7001, 7016, 7023, 7030, 7032, 7035, 7040

For more colours please keep in touch with your local sales office.

Note: Aromatic polyurethanes as MASTERTOP BC 375 N 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 (Deco-Paint-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 375 N is < 500 g/l (for the ready to use product).


Warning and precautions

MASTERTOP BC 375 N 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 isocyanate must be followed.

CE-marking

	
BASF Construction Chemicals Europe AG Industriestrasse 26, CH-8207 Schaffhausen	
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For use in buildings (system build-ups according to the respective technical data sheets)	
Product properties	EN 13813
	SR-B1,5-AR1-IR4-E _{fl}
	Synthetic resin screed/coating
Fire behaviour*	E _{fl}
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance BCA-method**	AR 1
Adhesive tensile strength	B 1,5
Impact resistance	IR 4
Subsonic noise insulation	NPD
Acoustical absorption	NPD
Heat insulation	NPD
Chemical resistance	NPD

* Value determined in the system MASTERTOP 1324
according EN 13501-1 Bfl-s1

** Value determined according BCA-method in the system
NPD = (no performance determined)

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As all BASF data sheets are updated on a regular basis, it is the user's responsibility to obtain the most recent issue.

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