

MasterTop[®] BC 325N

2K-PU coating, non-solvented, low emission, elastic, pigmented and sound absorbing, self-levelling

DESCRIPTION

MasterTop BC 325N is a two component, non-solvented and low emission, self-levelling floor coating which cures to a soft and elastic material with a hard wearing, easy to maintain surface and a tolerance to a wide range of cleaners and mild chemicals. Once coated with the recommended MasterTop top coat.

MasterTop BC 325N is supplied ready for use but can be further extended (except for REG systems) with oven dried silica sand, 0.1 – 0.3 mm, at a ratio of 100 parts by weight **MasterTop BC 325N** to 30 parts by weight sand. The floor coating must be coated with a pigmented top coat (i.e. **MasterTop TC 465** or **MasterTop TC 407W** pigmented) to avoid a yellowness.

TYPICAL APPLICATIONS

MasterTop BC 325N is used as a body coat and forms the basis of the comfort series of floor coating systems **MasterTop 1325** and **MasterTop 1325 REG** which find use in applications such as:

- Hospitals and elderly people homes
- Schools
- Libraries
- Offices
- Cafeterias and canteens
- Shops and supermarkets

ADVANTAGES

- low emission according to AgBB
- soft, elastic
- high degree of walking comfort
- sound absorbing
- hard wearing
- crack bridging
- easy to apply
- excellent self-levelling properties
- can be applied to asphalt and other substrates

PACKAGING AND COLORS

MasterTop BC 325N is supplied in 30kg working packs.

MasterTop BC 325N is available in a wide range of RAL colours. For more information, please consult Master Builders Solutions Technical Department.

APPLICATION GUIDELINES

MasterTop BC 325N 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 CONTAINER. After proper mixing to a homogeneous consistency pour the mixed parts A and B into a fresh container and mix for another minute. If **MasterTop BC 325N** is to be extended with sand, the sand should be added to the mixed components under continuous mixing until uniformly distributed. **MasterTop BC 325N** is poured onto the prepared substrate and spread with a notched trowel, or spreader (rubber or steel). Bubbles should be removed by rolling with a spiked roller.

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. The temperature of the substrate must be at least 3K above the dew point both during the application and for at least 8 hours after application (at 15°C).

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SUBSTRATE PRETREATMENT

MasterTop BC 325N must be applied to substrates primed with an epoxy or a polyurethane primer. 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. 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 course must have been properly installed and intact. In addition, the guidelines relevant to the requirements for coating concrete substrates must be observed.

CONSUMPTION

ca. 2,0 – 3,5 kg/m²

For further information please refer to the systems **MasterTop 1325** and **MasterTop 1325 REG**.

CLEANING

Re-usable tools must be cleaned carefully with a suitable thinner (Xylene / MEK / Acetone) or with solvent naphtha.

STORAGE AND SHELF LIFE

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.

TYPICAL PROPERTIES*

Mix ratio			by weight	3.5 : 1
Density	Part A	at 23°C	g/cm ³	1.32
	Part B	at 23°C	g/cm ³	1.22
	mixed	at 23°C	g/cm ³	1.29
Viscosity	Part A	at 23°C	mPas	2520
	Part B	at 23°C	mPas	270
	mixed	at 23°C	mPas	1500
Pot life		at 23°C	min	30
Re-coating interval / ready for traffic		at 23°C	h	min 12 max. 48
Fully cured/ready for exposure to chemicals		at 23°C	d	7
Substrate and application temperatures		at 23°C	°C	min. 8 max. 30
Max. permissible relative humidity		at 10°C	%	75
		at T>23°C	%	85

Technical data cured material

Shore-A hardness after 7 days			79
Tensile strength	DIN 51504	N/mm ²	7.0
Fully cured/ready for exposure to chemicals	DIN 53504	%	150

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 500 g/l (Limit: Stage 2, 2010). The VOC content for **MasterTop BC 325N** is < 500 g/l (for the ready to use product).

WARNING AND PRECAUTIONS

MasterTop BC 325N 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.

CE-MARKING ACCORDING TO EN 13813


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Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg
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232501
EN 13813: 2002
Synthetic resin 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: R10 Emissions behavior: Ü-Z: Z-156.605-686

NPD = No Performance Determined

Performance determined in System **MasterTop 1325**

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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