



The Chemical Company

# MASTERTOP® BC 325 N

**A self levelling, solvent free and low emission, two component, soft, elastic, polyurethane floor coating**

## Description

MASTERTOP® BC 325N is a two component, solvent free and low emission, self levelling, floor coating which cures to a tough yet soft and elastic material with a hard wearing, easy to maintain surface and a tolerance to a wide range of chemicals.

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.

## Fields of application

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 old peoples homes
- Schools
- Libraries
- Offices
- Cafeterias and canteens
- Shops and supermarkets

## Packaging

MASTERTOP® BC 325 N is supplied in 30kg working packs.

## Colours

MASTERTOP® BC 325N is available from stock in the following colour:

RAL 7016, 7032, 7035, c.a. 9001.

Other standard colours are: RAL 1001, 1013, 1014, 1015, 3009, 3013, 5007, 5014, 5024, 6011, 6021, 7001, 7023, 7030, 7038, 7040.

For any other colour, please consult your local sales office.

## Features and Benefits

- Low emission according to AgBB
- Soft, elastic
- High degree of walking comfort
- Sound absorbent
- Hard wearing
- Crack bridging
- Easy to apply
- Excellent self-levelling properties
- Can be applied to asphalt

# MASTERTOP<sup>®</sup> BC 325 N

## Technical data

Mixing ratio A : B	Parts by weight		3.5:1
Mixed density		g/cm <sup>3</sup>	1.29
Viscosity	@ 23°C	mPas	1500
Working time (30kg unit)	@ 23°C	Min.	30
Recoating interval	@ 23°C	h	Min 12
		d	Max 2
Fully cured	@ 23°C	d	7
Permissible ambient and substrate temperature		°C	Min 8
		°C	Max 30
Max. permissible relative humidity		%	75

## Technical data cured material\*

Shore A Hardness	after 7 days		79
Tensile strength	DIN 53504	N/mm <sup>2</sup>	7.0
Elongation	DIN 53504	N/mm <sup>2</sup>	150

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

## Application method

MASTERTOP<sup>®</sup> BC 325N 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. 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<sup>®</sup> 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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## Storage

Store in original containers, under dry conditions and a temperature between 15–25 °C. Do not expose to direct sunlight.

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 (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<sup>®</sup> BC 325N is < 500 g/l (for the ready to use product).

## Warning and precautions

In its cured state, MASTERTOP<sup>®</sup> BC 325N is physiologically non-hazardous.

The following protective measures should be taken when working with the material: wear safety gloves, goggles and protective clothing. Avoid contact with the skin and eyes. In case of eye contact, seek medical attention. Avoid inhalation of the fumes. 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 isocyanates.

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<b>EN 13813 SR-B1,5-AR1-IR4-Bfl</b>
<b>Synthetic resin screed/coating</b> for use in buildings (system build-ups according to the respective technical data sheets)
<b>Fire behaviour:</b> Bfl <b>Release of corrosive substances:</b> SR <b>Water permeability:</b> NPD <b>Wear resistance:</b> AR1 (BCA-method, determined on smooth coatings) <b>Adhesive tensile strength:</b> B1,5 <b>Impact resistance:</b> IR4 <b>Subsonic noise insulation:</b> NPD <b>Acoustical absorption:</b> NPD <b>Heat insulation:</b> NPD <b>Chemical resistance:</b> NPD

NPD = No Performance Determined