

# MasterTop® BC 325 N

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

## PRODUCT 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.

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

## FEATURES AND BENEFITS

- 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
- yellowing, when used in UV-exposed areas, does not impair the technical properties of the body coat (the application of a pigmented top coat like **MasterTop® TC 417W P** is recommended to prevent the yellowing of the surface and to improve the scratch resistance)

## APPLICATION METHOD

**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).

## SUBSTRATE PRE-TREATMENT

**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/mm<sup>2</sup> (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 cause 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/m<sup>2</sup>

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

## CLEANING AGENT

Re-usable tools must be cleaned carefully with **MasterTop® CLN 40** or with solvent naphta.

## PACKAGING

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

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## COLOUR

**MasterTop® BC 325N** is available in a wide range of RAL colours. For more information, please consult your local sales office.

## 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 (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 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.

## 2004/42 NO'LU AB DÜZENLEMESİ (DECOPAINT KILAVUZU)

Bu ürün 2004/ 42 sayılı AB direktifine uyum sağlamaktadır ve maksimum oranda izin verilen VOC limitinden aşağısını içermektedir. (Bölüm 2, 2010) 2004/ 42 sayılı AB direktifine göre izin verilen VOC muhtevası (II A ürün kategorisi/ j tipi wb için) 500 g/l dir. (Limit: Bölüm 2/2010 **MasterTop® BC 325 N** için bu miktar < 500 g/l dir ( ürünü kullanmak için hazır bulunur).

## WARNING AND PRECAUTIONS

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured

materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

## DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones

## CONTACT INFORMATION

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**MasterTop® BC 325 N** Technical Data Sheet -Revision  
Date: 12/2020

# MasterTop<sup>®</sup> BC 325 N


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<b>Technical Data*</b>				
Mix ratio			by weight.	3.5:1
Density	Part A	at 23°C	g/cm <sup>3</sup>	1,32
	Part B	at 23°C	g/cm <sup>3</sup>	1,22
	mixed	at 23°C	g/cm <sup>3</sup>	1,29
Viscosity	Part A	at 23°C	mPa.s	Ca. 5400
	Part B	at 23°C	mPa.s	200-360
	mixed	at 23°C	mPa.s	Ca. 1800
Pot-life		at 23°C	min	30
Re-coating interval/ready for traffic		at 23°C	H d	Min. 12 Max. 2
Fully cured/ready for exposure to chemicals		at 23°C	d	7
Substrate and application temperatures		at 23°C	°C °C	Min. 8 Max. 30
Max. permissible relative humidity		at 10 °C	%	75
		at T° >23 °C	%	85
<b>Technical data cured material*</b>				
Shore-A hardness after 7 days				79
Tensile strength		DIN 51504	N/mm <sup>2</sup>	7,0
Elongation		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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<b>Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.</b> Adres: Barbaros Mah. Begonya Sok. Nidakule Kuzey Ataşehir, C Kapısı No:3 E/5, 34746 Ataşehir İstanbul 20 DOP NO : 02.1504.2.035 1020 – CPR – 040 065838	
EN 1504-2: 2004 <b>MASTERTOP BC 325 N</b>	
Beton Yapıların Korunması ve Tamiri İçin Mamuller ve Sistemler. Bölüm:2 Beton için Yüzey Koruma Sistemleri (Products and systems for the protection and repair of concrete structures Part 2: Surface protection systems for concrete) 1.3 Yabancı madde girişine karşı koruma, 2.2 Nem Kontrolü, 8.2 Nem içeriğini sınırlayarak direnci artırma amaçlı kaplama malzemesi (Principles: 1.3 Protection against ingress, 2.2 Moisture control, 8.2 Increasing resistivity )	
CO2 Geçirgenliği (Permeability to CO2)	CO2 SD Geçirgenliği > 50m (CO2 SD permeability > 50m)
Su Buharı Geçirgenliği (Permeability to water vapour)	Sınıf I (Class I)
Kapiler Su Emme ve Su Geçirgenliği (Capillary absorption and permeability to water)	w<0,1 kg /m <sup>2</sup> .vh
Çekip Koparma Deneyi Yoluyla Yapışma Dayanımı (Adhesion strength by pull-off test)	Rigid Systems Trafik yüküyle birlikte:>1,5 N/mm <sup>2</sup> (1,0 min) (Rigid Systems With trafficking:>1,5 N/mm <sup>2</sup> (1,0 min) )
Yangına karşı tepki (Reaction to fire)	D-s2;d0
Tehlikeli maddeler (Dangerous substances)	Madde 5.4 ' e uygun (Comply with clause 5.4)

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EN 13813:2002 SR-Efl-B1-IR10 <b>MASTERTOP BC 325 N</b> Sentetik Şap Malzemesi (Screed material and floor screeds – Synthetic Screed material)	
Korozif Malzemelerin Açığa Çıkması (Release of corrosive substances)	SR
Yangına Karşı Tepki (Reaction To Fire)	Efl
Bağ Dayanımı (Adhesion Strength)	B1
Darbe Dayanımı (Impact Resisitance)	IR10
Kapiler su emme ve su geçirgenliği (Capillary absorption and permeability to water)	w<0,1 kg/m <sup>2</sup> .vh
Aşınma Direnci TABER (Abrasion Resistance "TABER")	≤ 3000 mg