

MasterTop® BC 375 N

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** can also be applied to bituminous substrates with special primers like **MasterTop® P 660** or **MasterTop® BC 375N**. It is part of system **MasterTop® 1324**, **MasterTop® 1324 AB**, **MasterTop® 1324 A**, **MasterTop® 1324 N&B** and **MasterTop® 1324 R**. **MasterTop® BC 375N** fits to the low emission of AgBBstandard.

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
- static crack bridging
- good chemical resistance
- 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 442 W P** is recommended to prevent the yellowing of the surface and to improve the scratch resistance)

APPLICATION METHOD

MasterTop® BC 375N 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 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 PRE-TREATMENT

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 recoating 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 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-ups **MasterTop® 1324**, **1324 A**, **1324 NB**, **1324 AB** and **MasterTop® 1324 R**.

CLEANING AGENT

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

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.

RAL 7032 and RAL 7035 are available on stock.

Note: Aromatic polyurethanes as **MasterTop® BC 375N** tend under UV influence (in indoor and outdoor areas) to yellowing.

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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 375N is < 500 g/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 safety and hygiene of workers handling polyurethane and isocyanate must be observed.

CONTACT INFORMATION

Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.

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MasterTop® BC 375 N Technical Data Sheet -Revision
Date: 12/2020

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	Ca. 5400
	Part B	at 23°C	mPa.s	80-120
	Mixed	at 23°C	mPa.s	Ca. 2200
Pot-life		at 23°C	min	30
Re-coating interval/ready for traffic		at 23°C	H d	Min. 12 Max. 3
Fully cured/ready for exposure to chemicals		at 23°C	d	7
Substrate and application temperatures		at 23°C	°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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CE	
<p>Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti. Adres: Barbaros Mah. Begonya Sok. Nidakule Kuzey Ataşehir, C Kapısı No:3 E/5, 34746 Ataşehir İstanbul 20</p>	
<p>DOP NO : 04.13813.006</p>	
<p>EN 13813:2002 SR-Efl-B2-IR3,5-C35 MASTERTOP BC 375 N</p>	
<p>Sentetik Şap Malzemesi (Screed material and floor screeds – Screed material)</p>	
Korozif Malzemelerin Açığa Çıkması (Release of corrosive substances)	SR
Yangına Karşı Tepki (Reaction To Fire)	Efl
Bağ Dayanımı (Adhesion Strength)	B2
Darbe Dayanımı (Impact Resistance)	IR3,5
Basınç Dayanımı (Compressive Strength)	C35
Aşınma Direnci TABER (Abrasion Resistance "TABER")	≤ 3000 mg

CE	
1020	
<p>Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti. Adres: Barbaros Mah. Begonya Sok. Nidakule Kuzey Ataşehir, C Kapısı No:3 E/5, 34746 Ataşehir İstanbul 20 DOP NO : 02.1504.2.019 1020 – CPR – 040 065838</p>	
<p>EN 1504-2: 2004 MASTERTOPBC375N</p>	
<p>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)</p>	
<p>1.3 Yabancı madde girişine karşı koruma, 2.2 Nem Kontrolü, 5.1 Fiziksel Direnç, 8.2 Nem içeriğini sınırlandırarak direnci artırma amaçlı kaplama malzemesi (Principles: 1.3 Protection against ingress, 2.2 Moisture control, 5.1 Physical resistance, 8.2 Increasing resistivity)</p>	
CO ₂ Geçirgenliği (Permeability to CO ₂)	CO ₂ S _D Geçirgenliği > 50m (CO ₂ SD permeability > 50m)
Su Buharı Geçirgenliği (Permeability to water vapour)	Sınıf III (Class III)
Kapiler Su Emme ve Su Geçirgenliği (Capillary absorption and permeability to water)	w<0,1 kg /m ² .\h
Çekip Koparma Deneyi Yoluyla Yapışma Dayanımı (Adhesion strength by pull-off test)	Rigid Systems Trafik yüküyle birlikte:>2,0 N/mm ² (1,5 min) (Rigid Systems With trafficking:>2,0 N/mm ² (1,5 min))
Aşınma Direnci (Abrasion Resistance)	Ağırlık Kaybı <3 g Weight loss less than 3 g
Çarpmaya Direnç (Impact resistance)	Sınıf I : 4 Nm Deformasyon yok (Class I : 4 Nm No deformation)
Yangına karşı tepki (Reaction to fire)	D-s2;d0
Tehlikeli maddeler (Dangerous substances)	Madde 5.4 'e uygun (Comply with clause 5.4)