

# MasterTop® BC 375N

2K-PU coating, pigmented, non-solvented, low emission, self-smoothing floor coating

## DESCRIPTION

**MasterTop BC 375N** is a non-solvented, low emission, 2K-self-smoothing polyurethane floor coating.

## TYPICAL APPLICATIONS

**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** fits to the low emission.

**MasterTop BC 375N** is an integral part of the **MasterTop 1324** system

## ADVANTAGES

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

## PACKAGING AND COLORS

**MasterTop BC 375N** is supplied in 30 kg working packs and available in a wide range of colours.

For more information, please consult Master Builders Solutions Technical department.

**Note:** Polyurethanes such as **MasterTop BC 375N** tend to yellow under the influence of UV (both internally and externally).

## TYPICAL PROPERTIES\*

Density @ 23°C	
Part A	1.5 g/cm <sup>3</sup>
Part B	1.22 g/cm <sup>3</sup>
mixed	1.45 g/cm <sup>3</sup>
Pot life @ 23°C	20 min
Tack free time	3 h
Re-coating interval / ready for traffic	min 12 h max. 72 h
Fully cured/ready for exposure to chemicals	7 days
Substrate and application temperatures	min. 5°C max. 30°C

## Technical data cured material\*

Tear resistance ASTM D1004	>30 kN/m
Shore-D hardness after 28 days ASTM D2240	>70
Elongation at break ASTM D412	>20%
Tensile strength ASTM D412	>10 N/mm <sup>2</sup>
Bond strength ASTM D4541	>2 MPa
Abrasion resistance ASTM D4060	<100 mg

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

## APPLICATION GUIDELINES

**MasterTop BC 375N** is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, pre-condition both Part A and Part B components to a temperature of approximately 15 to 25°C.

For mixing procedures and application rates follow the **MasterTop 1324** Method Statement and Technical Data Sheet.

After mixing, **MasterTop BC 375N** is applied to the substrate coated with a primer, using a notched trowel or pin rake. The tooth size should be selected according to the required layer

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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 PRETREATMENT

**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 re-coating interval of layer before has been exceeded.

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 at a load rate of 100N/s). The residual moisture content of the substrate must not exceed 4% (check with a tramex or similar moisture meter).

The temperature of the substrate must be at least 3K above the current dew point temperature. A damp proof membrane has to be installed and must be intact.

## CLEANING

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

## COVERAGE / YIELD

Please refer to the system build-up of **MasterTop 1324**.

## 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.

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## HEALTH AND SAFETY

**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 safely and hygiene of workers handling polyurethane and isocyanate must be observed.

## QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

\* 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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