MasterTop® BC 361

2 K PU coating, UV and colour stable, self levelling, pigmented, solvent free, soft and elastic

DESCRIPTION

MasterTop BC 361 is a colour stable, self levelling and solvent free floor coating based on an aliphatic polyurethane. It is hard wearing and has an easy to maintain surface with a tolerance to a wide range of chemicals. Because of its aliphatic nature, **MasterTop BC 361** is UV and colour stable. It can be used wet in wet to produce multi-coloured decorative floors. It will be coated with a colourless topcoat (for example **MasterTop TC 407 W**) in order to improve the scratch, chemical and mechanical resistance and to remain easy to clean.

FIELDS OF APPLICATION

MasterTop BC 361 forms the basis of the **MasterTop 1326** series of decorative floor coating systems which find use in applications such as:

- Boutiques and shops
- Schools and kindergarten
- Bars and restaurants
- Reception areas
- Offices
- Hospitals and old people homes
- Balconies

FEATURES AND BENEFITS

- UV and colour stable
- elastic, soft
- high degree of walking comfort
- sound absorbing
- robust
- crack bridging
- easy to apply
- excellent self-levelling properties

APPLICATION METHOD

MasterTop BC 361 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. **MasterTop BC 361** is poured onto the prepared substrate and spread with a notched trowel, or spreader (rubber or steel).

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 16 hours after application (at 15°C). The surface has to protected from water for at least 16 hours after application at 15°C too.

Substrate pre-treatment

MasterTop BC 361 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 cause must have been properly installed and intact.

CLEANING AGENT

Re-usable tools must be cleaned carefully with **MasterTop THN 2.**

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PACK SIZE

MasterTop BC 361 is supplied in 12.8kg and 30kg working packs

COLOURS

MasterTop BC 361 is available in the following colours: ca. RAL 1010, 1013, 1014, 1015, 3009, 3013, 5007, 5014, 5024, 6011, 6021, 7001, 7023, 7032, 7035, 7038 and 7040.
For any other colour, 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.

TECHNICAL DATA*

Mixing ratio		by weight	4:1
Density	at 23°C	g/cm³	1.38
Viscosity (Brookfield/Sp.5/20U)	at 23°C	mPas	6800
Pot life (30kg unit)	at 23°C	min	20
Re-coating interval/Ready for traffic	at 23°C	h	min. 8
		d	max. 2
Fully cured/ready for exposure to chemicals	at 23°C		
Substrate and application temperatures		°C	min. 5
		°C	max. 30
Max. permissible relative humidity		%	75

For cured material (the following figures are intended as a guide only and should not be used as a basis for specifications)

Shore-A-hardness	after 7 days		86
Tensile strength	DIN 53504	N/mm²	8.6
Elongation	DIN 53504	%	60

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GISCODE

Germany: Hazard information system:
GISCODE PU 40

EU-Regulation 2004/42 (Deco-Paint-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 361** is < 500 g/l (for the ready to use product).

WARNING AND PRECAUTIONS

MasterTop BC 361 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 followed.

CE

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EN 13813 SR-B1,5-AR1-IR4-E_{fl}

Synthetic resin screed/coating

Fire behavior*: E_{fl}
Release of corrosive substances: SR
Water permeability: NPD
Wear resistance: AR 0.5
(BCA-method**)
Adhesive tensile strength: B1,5
Impact resistance: IR4
Subsonic noise insulation: NPD
Acoustical absorption: NPD
Heat insulation: NPD
Chemical resistance: NPD

*Value determined in the system **Mastertop 1326** according EN 13501-1

** Value determined according BCA-method in the system

NPD = (no performance determined)

* Properties listed are based on laboratory controlled tests.

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