

MasterTop® 1325

A decorative, seamless, self-smoothing, flexible polyurethane flooring system designed to produce a comfortable floor with an even satin-matt finish with bacteriostatic properties in accordance with ISO 22196 : 2011

DESCRIPTION

A polyurethane based flooring system for commercial, semi-industrial and institutional applications.

- **MasterTop P 650** - Is a high grade, low-viscosity, two-component epoxy resin primer and substrate sealer.
- **MasterTop BC 325N** - Is a 2K-PU coating, non-solvented, low emission, elastic, pigmented and sound absorbing, self-levelling floor coating
- **MasterTop TC 417W** - Is a water borne, non-solvented, low emission, bacteriostatic, clear or pigmented 2K-PU top coat which cure to a matt finish.
- **MasterTop SR 1** - A graded, high purity quartz aggregate with a particle size in the range 0.0–0.3mm.

PRIMARY USES

As a sound deadening, comfortable flooring system where heavy pedestrian traffic is anticipated i.e. corridors, shower and changing facilities, hospitals, cafeterias and canteens, offices, schools, hotels, shops and supermarkets, leisure and health clubs, multi-purpose halls and public areas.

PACKAGING

MasterTop 1325 is supplied as follows:

MasterTop P 650	- 15kg
MasterTop BC 325N	- 30kg
MasterTop TC 417W	- 10kg
MasterTop SR 1	- 25kg

COVERAGE

MasterTop P 650	0.15-0.3 kg / m ² depending on surface texture and porosity.
MasterTop BC 325N mixed with MasterTop SR 1 (ratio 30kg: 10kg)	From 2.2-3.7 kg / m ²
MasterTop TC 417W (2nd coat is required for light colours)	0.10-0.12 kg / m ² / coat

THICKNESS

From 1.5mm-2.5mm

MasterTop P 650 – TYPICAL PROPERTIES*

Cured at 7 days @20°C		
Pot Life:	25°C	20 min
Density:	1.09	
Bonding strength	Greater than cohesive strength of typical good quality concrete substrate	
Application time	approx. 20 min at approx. 25°C	
Application temperature	10°C to 40°C substrate temp	
Recoat after	approx. 6 h at 30°C	
	approx. 12 h at 20°C	

MasterTop BC 325N – TYPICAL PROPERTIES*

Mix ratio	3.5 : 1
Density pigmented at 23°C	
Part A	1.32 g/cm ³
Part B	1.22 g/cm ³
Mixed	1.29 g/cm ³
Viscosity pigmented at 23°C	
Part A	2520 mPa.s
Part B	270 mPa.s
Mixed	1500 mPa.s
Pot life at 23°C	30 min.
Re-coating interval / ready for traffic at 23°C	min 12 h max. 48 h
Fully cured/ready for exposure to chemicals at 23°C	7 days
Substrate and application temperatures at 23°C	min 8°C max. 30°C
Max. permissible relative humidity	min. 75% max. 85%
Shore-A hardness after 7 days	79
Tensile strength DIN 51504	7.0 N/mm ²
Fully cured/ready for exposure to chemicals DIN 53504	150%

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MasterTop TC 417W – TYPICAL PROPERTIES*

Mix ratio	85 : 15
Solid content	Clear 48% Pigmented 50%
Density Clear at 23°C	
Part A	1.05 g/cm³
Part B	1.13 g/cm³
Mixed	1.06 g/cm³
Density Pigmented at 23°C	
Part A	1.13 g/cm³
Part B	1.13 g/cm³
Mixed	1.20 g/cm³
Viscosity Clear at 23°C (4mm DIN cup for Part A and Mixed)	
Part A	32 sec.
Part B	1480 mPa.s
Mixed	45-55 sec.
Viscosity Pigmented at 23°C (4mm DIN cup for Part A and Mixed)	
Part A	17 sec.
Part B	1480 mPa.s
Mixed	35-45 sec.
Working time at 20°C	45 min.
Ambient & substrate temperature	min. 10°C max. 30°C
Re-coating interval at 20°C	min 16 h max. 24 h
Light pedestrian traffic	
at 12°C / 50% r.h.	24 h
at 23°C / 50% r.h.	18 h
at 30°C / 50% r.h.	12 h
Fully cured at 23°C	7 days
Max. relative humidity	min. 30% max. 80%
Surface properties	matt, light structure

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

APPLICATION GUIDELINES

SURFACE PREPARATION

The surface to be coated must be clean and dry, free of laitance, oil, grease or any substance that may impair adhesion.

The preferred methods of preparation are; captive blasting, surface grinding or similar. Weak or damaged concrete must be removed, then replaced with a suitable repair compound from the **MasterEmaco** or **MasterBrace** range of products.

SURFACE CONDITIONING / PRIMING

The prepared surface must be conditioned to receive the **MasterTop BC 325N** by the application of **MasterTop P 650** applied at the rate of 0.15-0.3 kg/m² depending on the absorption of the concrete substrate.

PRIMER MIXING

Pour the PTB into the PTA and mix until streak free.

Do not mix more primer than can be used within 15 minutes at 25°C.

See **MasterTop P 650** technical datasheet.

Apply the mixed material by paint roller, brush or airless spray.

Allow to cure for minimum 5 hours with a substrate temperature of 20°C or 3 hours at 30°C.

BODYCOAT MIXING / APPLICATION

Mix the PTA and PTB of the **MasterTop BC 325N** together adding 10kg of **MasterTop SR 1** per 30kg unit whilst mixing for a minimum of 3 minutes.

Use a slow speed (300-350 rpm) drill with a spiral mixing head. Work the mixer round the mixing pail to ensure it scrapes the side and bottom of the pail.

Pour part mixed material into a fresh container and mix for a further 30 seconds.

Pour the material onto the floor and spread at the required coverage. Allow to cure overnight.

APPLICATION TEMPERATURE

Prior to application **MasterTop 1325** should be stored under cover and protected from extremes of temperature which may cause inconsistent workability, finish and cure times of the mixed material.

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TOP COAT / SEALER

MasterTop BC 325N must be sealed with **MasterTop TC 417W**.

Before mixing pre-condition both PTA and PTB to a temperature of approximately 15-25°C.

MasterTop TC 417W applied by roller at a rate of 0.10 to 0.12 kg / m² / coat.

Note: **MasterTop TC 417W** has anti-bacterial function. Do not apply any waxes on the surface. This will inhibit the anti-bacterial function. Consult the anti-bacterial floor care cleaning concept for further information.

Please refer to individual datasheets for further information.

CHEMICAL RESISTANCE

Contact your Master Builders Solutions Regional office.

STORAGE

Store under cover out of direct sunlight and protect from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Master Builders Solutions Technical Services Department.

HEALTH AND SAFETY

For further information, a material safety data sheet is available to the specialist applicator.

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.

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