

MasterTop® 1325 REG

Seamless, self-smoothing flexible Polyurethane based flooring system

DESCRIPTION

A seamless polyurethane flooring system that is crack bridging, high noise deadening and sound absorbing. For use indoors where high impact absorption is required.

- **MasterTop P 650** - is a high grade, low-viscosity, two-component epoxy resin primer and substrate sealer.
- **MasterTop SR 3** – a graded, high purity quartz aggregate with a particle size in the range of 0.3-0.8mm.
- **MasterTop ADH 170** - is a non-solvented, thixotropic, low emission, 2-component polyurethane adhesive.
- **MasterTop MAT 4 / MAT 6** – is a prefabricated elastic rubber granulate matting consisting of rubber granulate bound with a polyurethane binder.
- **MasterTop BC 328FLR** – is a non-solvented, low emission, pigmented and additional fire retardant, 2-component polyurethane body coat.
- **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, clear or pigmented 2KPU top coat which cure to a matt finish.

* Additional transparent top coat if chips are broadcasted. (Broadcast the chips in the pigmented top coat)

PRIMARY USES

As a sound deadening, comfortable flooring system where heavy pedestrian traffic is anticipated i.e. corridors, changing facilities, hospitals schools, hotels, shops.

MasterTop 1325 REG can also be used in public areas such as elderly peoples homes, Care Centers, for handicapped people, childrens play areas and exhibition halls.

PACKAGING

MasterTop 1325 REG is supplied as follows:

- MasterTop P 650** – 15kg
- MasterTop SR 3** – 25kg
- MasterTop ADH 170** – 25kg
- MasterTop MAT 4 / MAT 6** - 10mx1.5m (roll 15m²)
- MasterTop BC 328FLR** – 10.8kg
- MasterTop BC 325N** – 30kg
- MasterTop TC 417W** – 10kg

THICKNESS

From 6.0mm-8.5mm

TYPICAL PROPERTIES*

MasterTop P 650 – Typical Properties

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

MasterTop BC 325N – Typical Properties

Mixing ratio A : B	3.5 : 1 by weight
Mixed density	1.29 gm/cm ³
Viscosity mixed @ 23°C	1,500 mPas
Pot life @ 23°C	30 min
Working time @ 23°C	Min. 30
Recoat interval @ 23°C	Min. 12 hours Max. 2 days
Fully cured @ 23°C	7 days
Substrate and application temperatures @ 23°C	Min. 8°C Max. 30°C
Max. permissible relative humidity	10°C - 75% >23°C - 85%
Shore-A hardness after 7 days	79
Tensile strength DIN 51504	7N/mm ²
Fully cured/ready for exposure to chemicals 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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MasterTop ADH 170 – Typical Properties

Mix ratio A:B		5 : 1 by weight
Density at 23°C	Part A	1.65g/cm ³
	Part B mixed	1.23g/cm ³ 1.56g/cm ³
Viscosity at 23°C	Part A	thixotropic
	Part B mixed	200mPa.s thixotropic
Pot life	12°C	85 mins
	23°C	65 mins
	30°C	50 mins
Recoating interval / ready for traffic	12°C	Min 16 hours
	20°C	Min 12 hours
	30°C	Min 8 hours
Fully cured/ready for exposure to chemicals at 20°C		5 days
Substrate and application temperatures at 23°C		min. 10°C max. 30°C
Max. permissible relative humidity	10°C	75%
	At T >23°C	85%
Shore-A hardness after 24 hours at 23°C		88
Shore-D hardness after 28 days at 23°C		55
Tensile strength	DIN 53504	13N/mm ²
Elongation at break	DIN 53504	53%
Tear strength	DIN 53504	39N/mm ²

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MasterTop MAT 4 / MAT 6 - Typical Properties

Layer thickness	MAT 4	4mm
	MAT 6	6mm
Specific weight @ 20°C	MAT 4	Approx. 600kg/m ³
	MAT 6	Approx. 650kg/m ³
Weight per m ²	MAT 4	Approx. 2.40kgm ²
	MAT 6	Approx. 3.90kgm ²
Tensile strength DIN 53571	MAT 4	Approx. 0.45N/mm ²
	MAT 6	Approx. 0.55N/mm ²
Elongation at break DIN 53571		Approx. 65-70%
Temperature resistance		-40°C to 115°C
Fire classification DIN 4102-1		B 2**
Sound damping measured in system measured according to ISO 140-8-1998		
Evaluated according to ISO 717-2 (dLw) dB	MAT 4	Approx. 16
Evaluated according to ISO 717-2 (dLw) dB	MAT 6	Approx. 20

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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/cm ³
	Part B	1.13 g/cm ³
	Mixed	1.06 g/cm ³
Density Pigmented at 23°C	Part A	1.13 g/cm ³
	Part B	1.13 g/cm ³
	Mixed	1.20 g/cm ³
Viscosity Clear at 23°C (4mm DIN cup for Part A and Mixed)	Part A	32 sec. 1480 mPa.s 45-55 sec.
	Part B	
	Mixed	
	Mixed	
Viscosity Pigmented at 23°C (4mm DIN cup for Part A and Mixed)	Part A	17 sec. 1480 mPa.s 35-45 sec.
	Part B	
	Mixed	
	Mixed	
Working time at 20°C		45 min.
Ambient & substrate temperature		min. 10°C max. 30°C
Re-coating interval at 20°C		min 16 hours max. 24 hours
Light pedestrian traffic	at 12°C / 50% r.h.	24 hours
	at 23°C / 50% r.h.	18 hours
	at 30°C / 50% r.h.	12 hours
Fully cured at 23°C		7 days
Max. relative humidity		min. 30% max. 80%
Surface properties		matt, light structure

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MasterTop BC 328FLR – Typical Properties

Mixing ratio by weight		5:1
Density		1.45 g/cm ³
Viscosity	part A at 23°C	thixotropic
	part B at 23°C	100 mPas
	Mixed	thixotropic
Pot life	at 12°C	min. 75
	at 23°C	min. 45
	at 30°C	min. 30
Re-coating interval/Ready for traffic at 23°C		min. 10 hours
Fully cured/Ready for exposure to chemicals at 23°C		7 days
Substrate and application temperatures		min. 10°C max. 30°C
Max. permissible relative humidity		80%

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COVERAGE

Primer MasterTop P 650	0.15-0.3kg/m ² depending on surface texture and porosity
Sand broadcast MasterTop SR 3	0.8-1.0kg/m ²
Adhesive for mat MasterTop ADH 170	0.8-1.0kg/m ²
Elastic layer MasterTop MAT 4 / MAT 6	1m ² /1m ²
Pore sealer MasterTop BC 328FLR	0.9-1.0kg/m ²
Scratch coat MasterTop BC 325N	0.6-0.8kg/m ²
Body coat MasterTop BC 325N	2.5-3.0kg/m ²
Top coat MasterTop TC 417W (pigmented)	0.09-0.11kg/m ²
Additional transparent top coat if chips are broadcast MasterTop TC 417W (Clear)	0.12-0.14kg/m ²

APPLICATION GUIDELINES

Application temperature:

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

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** surface conditioner / sealer applied at the rate of 0.15-0.3kg/m² depending on the absorption of the concrete substrate.

MIXING

Pour the Part B into the Part A 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.

Mixing:

Mix the Part A and Part B of the **MasterTop BC 325N** together adding 10kg of **MasterTop SR 3** per 30kg unit whilst mixing for a minimum of 3 minutes. Use a slow speed (400 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.

PLACING / APPLICATION

Pour the material onto the floor and spread at the required coverage.

Allow to cure overnight.

Top coat / sealer:

MasterTop BC 325N must be sealed with **MasterTop TC 417W** to improve UV and abrasion resistance. **Note: MasterTop TC 417W** is not recommended under wheeled traffic.

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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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