

MASTERTOP[®] 1325

Seamless, self-smoothing flexible Polyurethane based flooring system

Description

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

- **MASTERTOP[®] PRIMER 2** - Is a high grade, low-viscosity, two-component epoxy resin primer and substrate sealer.
- **MASTERTOP[®] BC 325** - Is a two component solvent free polyurethane. The tough elastic liquid applied floor covering has excellent sound deadening and fatigue reducing properties.
- **MASTERTOP[®] TC 467** - Is a solvented 2-component polyurethane coating which, when applied to MASTERTOP[®] systems, produces a permanently elastic, wear-resistant, UV stable finish. It is available either pigmented or clear.
- **MASTERTOP[®] TC 405W** – a water based clear coating which may be applied if a matt finish is required.
- **MASTERTOP[®] SRA No. 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 [®] PRIMER 2	-	12.4kg
MASTERTOP [®] BC 325	-	30kg
MASTERTOP [®] TC 467	-	10kg
MASTERTOP [®] SRA NO. 1	-	25kg
MASTERTOP [®] TC 405W	-	10kg

Coverage

MASTERTOP [®] PRIMER 2	0.15-0.3kg / m ² depending on surface texture and porosity.
MASTERTOP [®] BC 325 with MASTERTOP [®] SRA No. 1	From 2.2-3.7kg / m ²
MASTERTOP [®] TC 467	0.10-0.12kg / m ² / coat
MASTERTOP [®] SRA No 1	10kg / unit of MASTERTOP [®] BC 325
MASTERTOP [®] TC 405 W	0.10-0.12kg / m ² / coat

Thickness

From 1.5mm-2.5mm

Typical properties

Properties listed are only for guidance and are not a guarantee of performance

MASTERTOP[®] PRIMER 2 - 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	

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MASTERTOP[®] BC 325 - Typical properties

Mixing ratio A : B	3.5 : 1 by weight
Mixed density at 20°C, mixture	1.49 gm/cm ³ (mixed density with aggregate)
Viscosity at 20°C, mixture	1,700 ± 400 mPas
Pot life at 20°C	35 ± 5 minutes
Shore A hardness	80 ± 5 (approx. 70 at 24 hours)
Tensile strength (DIN 53504)	6-8 N/mm ²
Elongation at break (DIN 53504)	160 ± 20 %

MASTERTOP[®] TC 467 - Typical properties

Mixing ratio part A : part B	4 : 1 by weight
Density at 20°C, mixture	1.05 gm/cm ³ (colourless) 1.30 gm/cm ³ (coloured)
Touch dry	After approx. 4 hours
Curing, to foot traffic	After 24 hours
	Bearing loads after approx. 3 days
Pot life at 20°C	Approx. 1.5 hours

MASTERTOP[®] TC 405W - Typical properties

Mixing ratio A : B (by weight)	100 : 25
Mixed density	1.0 g/cm ³
Mixed viscosity DIN 4mm cup at 23°C	25s
Solids content by volume	45%
Working time at 23°C	3h
Able to take light pedestrian traffic	
at 23 °C / 50 % r.h.	12h
at 10° C / 50 % r.h.	16h
Fully cured at 23 °C / 50 % r.h.	7d
Permissible ambient and substrate temperatures	min. 8°C max. 25°C
Permissible relative humidity	max. 80%
Taber abrasion resistance	
CS10/10N/1000 rev.	20mg

Guide to application

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.

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 EMACO or CONGRESIVE range of products.

Surface conditioning / priming

The prepared surface must be conditioned to receive the MASTERTOP[®] BC 325 by the application of MASTERTOP[®] PRIMER 2 surface conditioner / sealer applied at the rate of 0.15-0.3kg/m² depending on the absorption of the concrete substrate.

Mixing:

Pour the B component into the A component and mix until streak free.

Do not mix more primer than can be used within 15 minutes at 25°C. See MASTERTOP[®] PRIMER 2 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.



The Chemical Company

MASTERTOP[®] 1325

Mixing:

Mix the A and B components of the MASTERTOP[®] BC 325 together adding 10kg of MASTERTOP[®] SRA No. 1 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.

Application:

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

Allow to cure overnight.

Top coat / sealer:

MASTERTOP[®] BC 325 must be sealed with MASTERTOP[®] 467 or MASTERTOP[®] TC 405W to improve UV and abrasion resistance.

Note: MASTERTOP[®] TC 405W is not recommended under wheeled traffic.

Chemical resistance

Contact your BASF 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 BASF's Technical Services Department.

Safety precautions

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

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's 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, ISO 14001 and OHSAS 18001.

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As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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