

Mastertop[®] 1325

Seamless, self-smoothing flexible Polyurethane based flooring system

Description

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

- Mastertop[®]Primer2 - Is a high grade, low-viscosity, two-component epoxy resin primer and substrate sealer.
- Mastertop[®]BC325 - Is a two component solvent-free polyurethane. The tough, elastic, liquid applied floor covering has excellent sound deadening and fatigue reducing properties.
- Mastertop[®]TC467 - Is a solvent based 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[®]TC405W – a water based clear coating which may be applied if a matt finish is required.
- Mastertop[®]SRA No1 - A graded, high purity quartz aggregate with a particle size in the range 0.3 –0.9mm.

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 [®] 1200 Primer	14.31kg
Mastertop [®] BC325	30kg
Mastertop [®] TC467	10kg
Mastertop [®] SRA NO1	25kg
Mastertop [®] TC405W	10kg

Colours

Available in standard colours and with colour matching to RAL/BS colours depending on quantity required. Contact BASF CC SA.

Typical properties*

Mastertop[®]Primer2

Cured for 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	
	approx. 24 hours at 10°C	

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

Mastertop[®]BC325

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 %

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Mastertop[®]TC467

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[®]TC405W

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

Application procedure

Application temperature

Prior to application, Mastertop[®]1324 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 Concrevice range of products.

Surface conditioning/priming

The prepared surface must be conditioned to receive the Mastertop[®]BC325 by the application of Mastertop[®]Primer2 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[®]Primer2 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 A and B components of the Mastertop[®]BC325 together adding 10kg of SRA No1 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 in pools and spread at the required coverage for mixed material. Allow to cure overnight.

TopCoat/Sealer

Mastertop[®]BC325 must be sealed with Mastertop[®]467 or Mastertop[®]TC405W to improve UV and abrasion resistance.

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Application

Mastertop[®]TC467

Pour the B component into the A component and mix until a uniform streak free colour is obtained. Apply by roller or airless spray at 0.11-0.12kg/m² per coat.

For light duty applications (pedestrian / rubber wheeled trolleys) apply one coat at up to 0.12kg/m². For medium to heavy wear (heavy rubber wheeled and fork lift) situations or when chemical resistance is required, apply two coats each. **Note:** Mastertop[®]TC405W is not recommended under wheeled traffic.

Chemical resistance

Contact your BASF CC SA regional office.

Coverage

Mastertop [®] 1200 Primer	0.15-0.3kg/m ² depending on surface texture and porosity.
Mastertop [®] BC325 with SRA No1	From 2.2-3.7kg/m ²
Mastertop [®] TC467	0.11-0.12kg/m ² per coat.
Mastertop [®] SRA No1	10kg/unit of Mastertop [®] BC325
Mastertop [®] TC405W	0.11-0.12kg/m ² per coat.

Thickness

From 1.5mm-2.5mm

Storage

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

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF Construction Chemicals SA's Technical Services Department.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product is fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

Note

For professional use only

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals SA representative. BASF Construction Chemicals SA reserves the right to have the true cause of any difficulty determined by accepted test methods

Quality and care

All products originating from BASF Construction Chemicals' SA facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001:2000.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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

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