

MASTERTOP[®] 1324

Seamless, self-smoothing heavy duty polyurethane based flooring system

Description

A multi-component, polyurethane based system for the protection of concrete floors subject to high levels of traffic, impact and abrasion. Enhanced flexibility provides excellent impact resistance and reduces the risk of cracking due to substrate movement. MASTERTOP[®] 1324 is available in smooth or slip-resistant profile.

- **MASTERTOP[®] PRIMER 2** - is a high grade, low-viscosity, two component epoxy resin primer and substrate sealer.
- **MASTERTOP[®] BC 375** - Is a hard but flexible, solvent-free 2-component, self-smoothing compound based on the latest polyurethane technology that produces hard-wearing, smooth or non-slip floor surfaces.
- **MASTERTOP[®] TC 441** - Is a 2-component pigmented or clear polyurethane coating which, when applied to MASTERTOP[®] coatings, produces a flexible wear-resistant and durable seamless surface.
- **MASTERTOP[®] SRA No. 1** – A graded high purity quartz aggregate with a particle size in the range of 0.0-0.3mm.

Primary uses

Industrial floors, which require a matt, durable abrasion-resistant finish such as loading bay areas, production/assembly halls, exhibition halls, hospitals and schools, warehouses, service corridors, aircraft hangars.

Packaging

MASTERTOP[®] 1324 is supplied as follows:-

MASTERTOP [®] PRIMER 2	-	12.4kg
MASTERTOP [®] BC 375	-	30kg
MASTERTOP [®] TC 441	-	10kg
MASTERTOP [®] SRA NO. 1 (Silica Quartz)	-	25kg

Slip resistance

MASTERTOP[®] 1324 has been tested for slip resistance in accordance with BS 7976-2 : 2002.

Coverage

MASTERTOP [®] PRIMER 2	0.15-0.3kg/m ² depending on surface texture and porosity.
MASTERTOP [®] BC 375 with MASTERTOP [®] SRA NO. 1	Approx. 2.5-4.0 kg/m ²
MASTERTOP [®] SRA NO. 1	15kg / unit of MASTERTOP [®] BC 375
MASTERTOP [®] TC 441	0.10-0.12kg/m ² per coat

Thickness

From 1.5-2.5mm (dependent on surface profile required).

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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:	20 mins at 25°C
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

MASTERTOP[®] BC 375 - Typical properties

Mixing ratio A: B	5 : 1 by weight
Mixed density at 20°C (resin component only)	approx. 1.55gm/cm ³
Flash point	Part A/B > 200°C
Tensile strength DIN 53 504	approx. 30 N/mm ²
Breaking elongation DIN 53 504	approx. 10%
Pressure resistance	approx. 65 N/mm ²
Flexural strength	approx. 32 N/mm ²
Shore-D-hardness	75
Elasticity module DIN 53 457	approx. 1200 N/mm ²
Application time	approx. 30 mins. at 20°C
Recoat after	min. 6 hours, max. 72 hours at 20°C
Curing time	. To bear mechanical loads at +15°C, approx. 12 hours. To resist chemicals at + 5°C, approx. 5 days. To resist chemicals at + 15°C, approx. 3 days

MASTERTOP[®] TC 441 - Typical properties

Mixing ratio A:B	10 : 1 acc. to weight
Mixed density	approx. 1.0g/cm ³ (colourless) approx. 1.3g/cm ³ (coloured)
Curing at 20°C at 60% rel. atm. Humidity	to be walked on after approx. 16 hours capable of bearing loads after approx. 48 hours
Recoat after	24 hours at the earliest at 20°C after 3 days at the earliest at 10°C
Note	If the seal is recoated earlier, a glossy surface must be expected

Guide to application

Prior to application MASTERTOP[®] 1324 should be stored under cover in air-conditioning and protected from extremes of temperature which may cause inconsistent workability, finish and cure times of the mixed material.

Application temperature:

The quality of the final coating is dependent on the substrate and the material temperatures. We recommend a substrate temperature of min. +10°C and max. +35°C.

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.

Maximum moisture content 5% by weight of concrete.

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Steel:

Prepare surface by means of grit blasting, high pressure water jetting or other suitable means to Swedish standards SA 2½. The amplitude of the profile to be greater than 20 microns.

Asphalt:

Contact the BASF Technical Department

Wood:

Timber must be sound and free of substances that might impair adhesion.

Resin application

Smooth Finish:

1. Mix the A and B components of MASTERTOP[®] BC 375 for no less than 2 minutes using a drill and paddle operating at 300-400rpm. Add 15kg of MASTERTOP[®] SRA No. 1 whilst continuing to mix.
2. When the mix looks uniform, pour the material into a clean container and remix for about 30 seconds.
3. Pour the mixed material onto the primed surface in pools or as a long strip.
Using a trowel, pin screed or notched trowel spread the MASTERTOP[®] BC 375 to the required thickness.
To release trapped air and assist with the smoothing operation roll the material within 5 minutes after it is levelled, using a spiked roller. The operative using the spiked roller must wear spiked shoes so that he can walk in the wet MASTERTOP[®] BC 375.
4. Allow to cure 12 hours at 20°C before allowing light traffic.
5. To provide UV protection and additional durability and surface performance MASTERTOP[®] BC 375 should be overcoated with MASTERTOP[®] TC 441 at 0.10-0.12kg/m²

per coat.

Profiled Finish:

1. MASTERTOP[®] BC 375 should be mixed and applied onto primed surface as above but applied at 1kg/m².
2. When the material has been levelled broadcast MASTERTOP[®] SRA No. 3 to saturation (2-3kg/m²).
3. Allow to cure for minimum 6 hours @ 30°C, then remove excess aggregate. Remove prominent aggregate particles by scraping the surface with the edge of a trowel. Vacuum clean to remove loose aggregate. Apply the top coat of MASTERTOP[®] BC 375, mixed without the addition of aggregate, at the rate of 0.6kg/m² using a squeegee / wiper or medium pile roller.
4. Allow to cure for minimum 12 hours before allowing use by light traffic.
5. To provide UV protection and additional durability and surface performance MASTERTOP[®] BC 375 should be overcoated with MASTERTOP[®] TC 441 at 0.10-0.12kg/m² per coat.

Note: Detailed method statements should be requested and referred to as part of the application planning process.

Chemical resistance

Contact your BASF Technical Department.



The Chemical Company

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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 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.

BASF Construction Chemicals UAE LLC

P.O. Box 37127, Dubai, UAE

Tel: +971 4 8090800

www.basf-cc.ae

Fax: +971 4 8851002

e-mail: marketingcc.mideast@basf.com



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