

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 profiles.

- **MasterTop P 650** - is a high grade, low-viscosity, two component epoxy resin primer and substrate sealer.
- **MasterTop BC 375N** - is a non-solvented, low emission, pre-filled, 2 component self-levelling polyurethane floor coating.
- **MasterTop TC 442W Pigmented** - is a water borne, non-solvented, low emission, 2 component PU top coat which cures to a matt finish.
- **MasterTop TC 941 Pigmented** – is a high solid, non-solvented, low emission, pigmented 2 component hybrid polyurethane topcoat which cures to a semi-gloss finish.
- **MasterTop SR 1** - A graded high purity quartz aggregate with a particle size in the range of 0.0-0.3mm.
- **MasterTop SR 3** - A graded high purity quartz aggregate with a particle size in the range of 0.3-0.9mm

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 P 650	-	15kg
MasterTop BC 375N	-	30kg
MasterTop TC 442W Pigmented	-	10kg
MasterTop TC 941 Pigmented	-	12kg
MasterTop SR 1	-	25kg
MasterTop SR 3	-	25kg

STANDARDS

Fire Classification - BS EN ISO 11925 Part 2 / BS EN 13501 Part 1:2007 + A1:2009
Resistance to mould growth - ASTM D3273-12

SLIP RESISTANCE

MasterTop 1324 has been tested for slip resistance in accordance with BS 7976-2 : 2002.

COVERAGE

Smooth Finish

MasterTop P 650	0.15-0.3kg/m ² depending on surface texture and porosity
MasterTop BC 375N mixed with 15kg of MasterTop SR 1 (smooth finish)	Approx. 2.5-4.0 kg/m ²
MasterTop TC 442W Pigmented	0.08-0.10kg/m ² per coat (1 or 2 coats required)
Or (optional topcoat)	
MasterTop TC 941 Pigmented	0.10-0.12kg/m ² per coat (1 coat required)

Profiled Finish

MasterTop P 650	0.15-0.3kg/m ² depending on surface texture and porosity.
MasterTop BC 375N	Approx. 1kg/m ²
MasterTop SR 3	Approx. 2-3kg/m ²
MasterTop BC 375N	Approx. 0.6kg/m ²
MasterTop TC 442W Pigmented	0.10-0.12kg/m ² per coat (1 or 2 coats required)

THICKNESS

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

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TYPICAL PROPERTIES*

MasterTop P 650- 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

MasterTop BC 375N – TYPICAL PROPERTIES

Mix ratio A:B		100 : 22 by weight
Density at 23°C	Part A	1.54g/cm ³
	Part B	1.22g/cm ³
	mixed	1.45g/cm ³
Viscosity at 23°C	Part A	10'000mPa.s
	Part B	50-100mPa.s
	mixed	2200mPa.s
Pot life at 23°C		30 mins
Re-coating interval / ready for traffic at 23°C		min 12 hours max. 72 hours
Fully cured/ready for exposure to chemicals at 23°C		7 days
Substrate and application temperatures at 23°C		min. 5°C max. 30°C
Max. permissible relative humidity		75%

MasterTop TC 442W – TYPICAL PROPERTIES

Mixing ratio A:B		4 : 1 by weight
Solid content (pigmented)		47%
Density (pigmented)	Part A	1.14g/cm ³
	Part B	1.13g/cm ³
	Mixed	1.14g/cm ³
Viscosity	Part A	170-450mPa.s
	Part B	1300mPa.s
	Mixed	550-850mPa.s
Working time at 20°C		45 mins
Ambient and substrate temperature		Min. 10°C Max. 30°C
Recoating intervals at 20°C		Min. 12 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		5 days
Max relative humidity		Min. 30% Max. 80%
Surface properties		matt, light structure

MasterTop TC 941 – TYPICAL PROPERTIES

Mixing ratio A:B		1:9 by weight
Solid content (pigmented)		99%
Density (pigmented)	Part A	1.14g/cm ³
	Part B	1.13g/cm ³
	Mixed	1.14g/cm ³
Viscosity	Part A	400mPa.s
	Part B	1100mPa.s
	Mixed	1000mPa.s
Working time at 20°C		30 mins
Ambient and substrate temperature		Min. 10°C Max. 30°C
Recoating intervals at 20°C		Min. 12 hours Max. 24 hours
Light pedestrian traffic		
at 12°C / 50% r.h.		24 hours
at 23°C / 50% r.h.		12 hours
at 30°C / 50% r.h.		10 hours
Fully cured at 23°C		7 days
Max relative humidity		Min. 30% Max. 90%
Surface properties		semi-gloss, light structure

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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 **MasterEmaco** or **MasterBrace** range of products. Maximum moisture content 5% by weight of concrete.

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.

ASHPHALT

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 375N** for no less than 2 minutes using a drill and paddle operating at 300-400rpm. Add 15kg of **MasterTop SR 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 375N** 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 375N**.
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 375N** should be overcoated with **MasterTop TC 442W** Pigmented at 0.08-0.10kg/m² per coat or (Optional topcoat) **MasterTop TC 941** Pigmented at 0.10-0.12kg/m² per coat.

PROFILED FINISH

1. **MasterTop BC 375N** should be mixed and applied onto primed surface as above but applied at 1kg/m².
2. When the material has been levelled broadcast **MasterTop SR 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 375N**, 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 375N** should be overcoated with **MasterTop TC 442W** Pigmented 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.



We create chemistry

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CHEMICAL RESISTANCE

Contact your BASF Technical Department.

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 ISO 45001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

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