

MASTERTOP[®] 1331

Polyurethane, protective traffic-deck coating system

Description

MASTERTOP[®] 1331 is a tough, durable, polyurethane deck coating system providing a seamless and protective, wear resistant, profiled surface for traffic areas. MASTERTOP[®] 1331 is pigmented, allowing improved aesthetics and the demarcation of pedestrian and traffic areas, for safety and improved traffic flow.

MASTERTOP[®] 1331 has been tested for crack bridging in accordance with ASTM C836.

- **MASTERTOP[®] PRIMER 2** - is a high grade, low-viscosity, two-component epoxy resin coating for mineral surfaces. MASTERTOP[®] PRIMER 2 is used as a sealer or filler with or without the addition of quartz sand.
- **MASTERTOP[®] SRA No. 3** - A graded, high purity quartz aggregate with a particle size in the range 0.3 –0.9mm. Used as a multi action: mechanical key, wear enhancer and to provide skid resistance, it's use is the means by which thickness is attained with economy for the various wearing conditions such as: in traffic lanes, ramps and turning areas.
- **MASTERTOP[®] TC 400**- Is a single component polyurethane coating with a low solvent content suitable for application as a topcoat on traffic deck systems. It provides a hard-elastic surface resistant to general and vehicle related chemical spillage and abrasion.
- **MASTERTOP[®] TC 44 LM** – A tough, surface applied pigmented line marking coating.

Primary uses

MASTERTOP[®] 1331 may be specified as a protective trafficable wear resistant membrane for a variety of applications including:-

- Car park decks
- Traffic ramps
- Plant rooms
- Protection of concrete from the damaging effects of salt water, chemicals, fuel and oil spillage.

MASTERTOP[®] 1331 may be applied at varying thicknesses dependant upon quantity and rate of traffic – please refer to BASF Technical department for project specific coverages.

Packaging

- MASTERTOP[®] PRIMER 2 - 15kg units
- MASTERTOP[®] SRA No 3 - 25kg
- MASTERTOP[®] TC 400 - 25kg unit
- MASTERTOP[®] TC 44 LM - 18 litres

Coverage

MASTERTOP [®] PRIMER 2	0.15-0.30kg/m ² depending on surface texture and porosity.
MASTERTOP [®] SRA NO. 3	0.5-1.0kg depending on application
MASTERTOP [®] TC 400	From 0.35kg / m ² / coat. Two coats minimum

Thickness

Nominal 1.0 - 1.5mm dependant on application requirement

MASTERTOP[®] 1331

Colours

The BASF standard colours for MASTERTOP[®] 1331 are:

Basalt Grey, Black Grey, May Green, Oxide Red, Brilliant Blue

(Further colours are available on request).

*Typical properties

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 45°C substrate temp	
Recoat after	approx. 6 hours at 30°C approx. 12 hours at 20°C	

MASTERTOP[®] TC 400- Typical properties

Cured at 7 days @20°C	
Density:	1.48 g/cm ³
Viscosity at 23°C, 50 s ⁻¹	800 MPas
Solids content	83%
Open time at 23°C	45 min.
Open to foot traffic at 23°C / 50% r.h.	4 hours
Open to vehicular traffic at 23°C / 50% r.h.	16 hours
Tensile strength	25 N/mm ²
Elongation (top coat) ASTM D638	46%
Tear strength	45 N/mm ²
Taber Abrasion ASTM D4060 : Part 1	1.02 (g/1000 cycles)
Slip Resistance (BS 797602 : 2002) TRL Test (MASTERTOP [®] 1331)	94

Surface preparation and priming

The surface to be coated must be clean, dry, free of laitance, oil, grease or any substance that may impair adhesion. Surface preparation should be by 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 defects should then be repaired using MASTERTOP[®] Filler 2200 or other suitable repair compounds from the CONGRESIVE or EMACO range.

NB Please refer to BASF Technical Department for project specific coverages. Do not apply when the humidity exceeds 90%. Ensure that the substrate temperature is 3°C higher than the dew point.

Chemical resistance

MASTERTOP[®] 1331 is resistant to acids and alkalis of medium concentrations, mineral oil products and solvents. Contact your local BASF office for specific details.

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.



The Chemical Company

MASTERTOP[®] 1331

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.

02/2005 BASF_CC-UAE revised 10/2009

* Properties listed are based on laboratory controlled tests.

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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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