

# MASTERTOP<sup>®</sup> 1330 (Low VOC)

## Polyurethane, protective traffic-deck coating system

### Description

MASTERTOP<sup>®</sup> 1330 (Low VOC) is a UV stable, multi-layered, durable, polyurethane deck coating system providing a seamless and protective, wear resistant, profiled surface. MASTERTOP<sup>®</sup> 1330 (Low VOC) is pigmented, allowing improved aesthetics and the demarcation of pedestrian and traffic areas, for safety and improved traffic flow.

### Primary uses

MASTERTOP<sup>®</sup> 1330 (Low VOC) may be specified as a protective trafficable wear resistant membrane for a variety of applications including:-

- Car park decks
- Trafficable flat roofs
- Traffic ramps
- Plant rooms
- Sports stadia and grandstand waterproofing coatings
- Balconies
- Protection of concrete from the damaging effects of salt water, chemicals, fuel and oil spillage.

MASTERTOP<sup>®</sup> 1330 (Low VOC) may consist of the following BASF UAE products -

- **MASTERTOP<sup>®</sup> PRIMER 2** - Is a high grade, low-viscosity, two-component epoxy resin primer and substrate sealer.
- **MASTERTOP<sup>®</sup> 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<sup>®</sup> TC 426** - Is a single component polyurethane coating designed for internal and external applications where a UV stable, water dispersed topcoat is the preferred option.
- **MASTERTOP<sup>®</sup> TC 44 LM** - A tough, surface applied pigmented line marking coating.

MASTERTOP<sup>®</sup> 1330 (Low VOC) 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 <sup>®</sup> PRIMER 2	-	15kg
MASTERTOP <sup>®</sup> SRA No 3	-	25kg
MASTERTOP <sup>®</sup> TC 426	-	24kg
MASTERTOP <sup>®</sup> TC 44 LM	-	18 ltr

### Typical properties (Mastertop TC 426)

Abrasion Test as per ASTM D 4060 (CS 17, 1 kg wt), 7 days	223mg Wt Loss per 1000 cycles
Tensile Strength & Elongation as per ASTM D412 at 7 days	3.5 N/mm <sup>2</sup>
% Elongation at break, 7 days	57%
Pull-Off Test (BS EN ISO 7500-1 :2004)	3.0 N/mm <sup>2</sup> (concrete failure)



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## Surface & Substrate Preparation

The surface must be clean and dry. Remove dirt, dust oil and all forms of contamination that could interfere with the adhesion of the coating.

### Concrete

Concrete must be cured for 28 days. Mechanical surface profiling is the method of preparation. Suitable preparation includes light grit blasting, surface grinding etc. Voids and pinholes must be repaired using MASTERTOP<sup>®</sup> FILLER 2200 or other suitable repair compounds from the CONCRESSIVE or EMACO range.

### Steel

Prepare steel to SSPC-SP6 Surface profile 50-75 micron.

### Primer

MASTERTOP<sup>®</sup> PRIMER 2 is recommended.

## For best performance

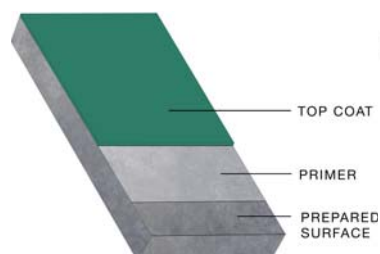
- Prior to application, pre-condition the MASTERTOP<sup>®</sup> materials to a temperature of approximately 25°C.
- MASTERTOP<sup>®</sup> TC Top coats should be stirred before use to ensure uniformity of colour.
- Apply by roller, squeegee or airless spray to the primed tack-free surface.
- Contact Technical Service when substrates are under 15°C or over 40°C
- Avoid the application of MASTERTOP<sup>®</sup> Topcoats when inclement weather is present or imminent
- Minimum curing time is 48 hrs @ 25°C
- Do not apply when the humidity exceeds 90%. Ensure that the substrate temperature is 3°C higher than the dew point

- Following application the coating should be protected from direct contact with water for a minimum of 3 days

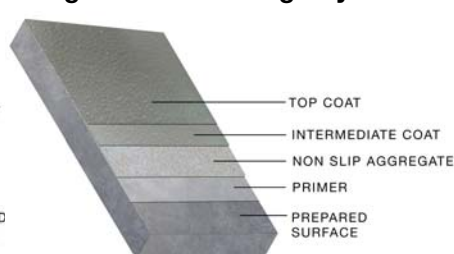
The curing time of the material is influenced by the humidity and the ambient and substrate temperatures, the chemical reaction is slowed down; this lengthens the curing time and the re-coating intervals. At high humidity and high temperatures the chemical reaction is accelerated thus the time frames mentioned above are shortened accordingly.

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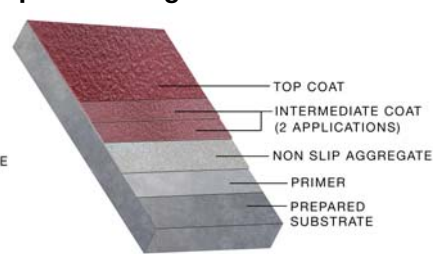
## Smooth Pedestrian



## Driving Lanes & Parking Bays



## Ramps & Turning Areas



## Application Rates

	Material	Smooth Pedestrian Coating	Driving Lanes & Parking Bays	Ramps & Turning Areas
<b>Primer</b>	MASTERTOP <sup>®</sup> PRIMER 2	0.15-0.3 Kg/m <sup>2</sup>	0.15-0.3 Kg/m <sup>2</sup>	0.25-0.35 Kg/m <sup>2</sup>
<b>Non-Slip Aggregate</b>	MASTERTOP <sup>®</sup> SRA No. 3	-	0.6 Kg/m <sup>2</sup>	2.0 Kg/m <sup>2</sup>
<b>Intermediate Coat</b>	MASTERTOP <sup>®</sup> TC 426	0.30 Kg/m <sup>2</sup>	0.35 Kg/m <sup>2</sup>	2 x 0.35Kg/m <sup>2</sup> (Total 0.7 Kg)
<b>Top Coat</b>	MASTERTOP <sup>®</sup> TC 426	0.30 Kg/m <sup>2</sup>	0.35 Kg/ m <sup>2</sup>	0.35 Kg/m <sup>2</sup>

## Storage & Shelf life

Store in original containers, under dry conditions and a temperature between 15-25°C. Do not expose to direct sun-light. Avoid excessive heat and do not freeze. The shelf life is 6 months in unopened drums in cool and dry conditions. Once a drum has been opened, its contents should, if possible, be used up completely since surface skinning will form on any remaining quantities.

## Chemical resistance

MASTERTOP<sup>®</sup> TC 426 is resistant to acids and alkalis of low concentration, mineral oil products and solvents. Contact your local BASF office for specific details.

## Safety precautions

Avoid any inhalation of vapour and contact with skin. Wear protective gloves, goggles and clothing. In case of skin contact, rinse immediately with soap and water! In case of eye contact, bathe eyes with water at once, then consult a doctor.

Do not eat, do not smoke and do not use an open flame when handling the product.

Observe the guidelines issued by the Employer's Liability Insurance Associations.



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## Maintenance

Regular cleaning and maintenance will prolong the life of all polymer flooring systems, enhance their appearance and reduce any tendency to retain dirt.

## 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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\* 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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