

# MASTERTOP<sup>®</sup> M 523

## A tough elastic one component, polyurethane membrane

### Description

MASTERTOP<sup>®</sup> M 523 is an environmentally friendly one component polyurethane coating suitable for use in traffic coating systems to provide crack bridging and waterproofing capability.

When used in car park decking systems it will bridge dynamic cracks.

### Primary uses

MASTERTOP<sup>®</sup> M 523 is used primarily as a durable elastic membrane in polyurethane coating systems for car parks.

### Features

- Elastomeric
- Aggregate scatter does not sink through the wet coat.

### Colour

MASTERTOP M 523 is available in grey.

### V.O.C. Values

167g/Lt

### Packaging

MASTERTOP<sup>®</sup> M 523 supplied in 21kg units.

### Theoretical coverage rate

From 0.5kg/m<sup>2</sup> dependent upon application. Please refer to BASF Method Statements for project specific coverage's.

### \*Typical properties

Mixed density at 25°C ASTM D 1475	1.14 – 1.16kg/L
Tack free time at 25°C ASTM C 679	Approx. 60min
Abrasion Resistance ASTM 4060 (CS17/1000g / 1000 cycle)	30mg
Tensile strength ASTM D412	1.3 N/mm <sup>2</sup>
Elongation at break ASTM D412	500%

### Surface & substrate preparation

Surfaces must be clean and dry. Remove dirt, dust, oil and all other 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 FILLER 2200 or other suitable repair compounds from the CONGRESIVE or EMACO range.

### Steel

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

### Primer

MASTERTOP M 523 must be applied onto a primed substrate. MASTERTOP PRIMER 2 is recommended. Please refer to separate technical data sheet for application rates & procedures.

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## Application

### For best performance

- Prior to application, pre-condition the MASTERTOP M 523 to a temperature of approximately 25°C.
- MASTERTOP M 523 should be stirred before use to ensure uniformity of colour.
- Pour the mixed material onto the floor and spread at the required coverage using pin screed or trowel.
- Working time is approximately 30 minutes at 25°C. Higher temperatures will shorten the working time. Contact Technical Service when substrates are over 45°C or under 15°C.
- Avoid the application of Mastertop M 523 when inclement weather is present or imminent
- Minimum curing time is 5°C
- Do not apply when the humidity exceeds 90%. Ensure that the substrate temperature is 3°C higher than the dew point

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.

## 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 1 year 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.

## 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.

## Maintenance

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



The Chemical Company

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## 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.**

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