

# Mastertop<sup>®</sup>1255

## Decorative Aggregate-Based Resin Flooring System

### Description

Mastertop<sup>®</sup>1255 is a multi-component decorative Stone Carpet flooring system based on natural or pigmented aggregates bound in a clear epoxy resin to produce an aesthetically pleasing profiled floor finish. Applied by trowel to produce a seamless floor to thicknesses of 8mm and above.

Available with either sealed or open textured surface.

Available in SA as a 3 part component kit.

### Primary uses

Mastertop<sup>®</sup>1255 floors have excellent mechanical properties and offer good abrasion and wear characteristics for areas subjected to regular traffic.

Mastertop<sup>®</sup>1255 is non-tainting and is suitable for application where foodstuffs are stored. Mastertop<sup>®</sup>1255 may be used in the following industries:

- Retail
- Public Areas
- Exhibition and Conference Halls
- Offices and Commercial Buildings
- Vehicle Showrooms
- Entrance Halls and Receptions

### Advantages

- Seamless
- Impact and abrasion resistant
- Slip resistant
- Visually pleasing finish
- Design potential (available in a wide range of colours & varying aggregate sizes)
- Noise reduction properties

### Product components

Mastertop<sup>®</sup>1255 Stone Carpet is supplied as a multi component system:

Primer	Mastertop <sup>®</sup> 1255 Resin	12.4kg
Aggregate	MastertoP <sup>®</sup> SRA3	25kg
Screed	Mastertop <sup>®</sup> 1255 Resin Mastertop <sup>®</sup> 1255 Filler F4 (2-3mm/4-6mm)	12.4kg 25kg
Sealer	Mastertop <sup>®</sup> UV Filler11	5/10kg

### Colours

Available in standard colours and with colour matching to RAL/BS colours depending on quantity required. Contact BASF Construction Chemicals SA.

### Typical properties\*

Mechanical properties: (cured 7 days at 20°C)	
Bonding strength	Greater than cohesive strength of good quality concrete
Abrasion Resistance (ASTM D4060)	90mg
Temperature service:	-20°C to +60°C
Application temperature	+10°C to +40°C (temperature of air and substrate)

\*Properties listed are only for guidance and are not a guarantee of performance

### Application procedure

#### Preparation

Mastertop<sup>®</sup>1255 must be applied to a clean, dry substrate free from dust, dirt, oil, grease and other contaminants. A clean, well prepared surface will ensure adhesion between substrate and overlay.

The method of surface preparation will be dictated by the size of area to be treated, location and degree of contamination.

# Mastertop<sup>®</sup>1255

## **New construction**

Floors to be coated or overlaid should be at least 28 days old, unless water-reducing admixtures have been incorporated with a minimum compressive strength of 25N/m<sup>2</sup> and a moisture content of less than 5%. The removal of laitance and contaminants is best achieved by mechanical means such as vacuum recovery shot blasting or scarifying.

Consult BASF Construction Chemicals SA Technical Services Department for advice /clarification.

## **Existing substrate**

All contamination must be removed and a sound, clean, dry substrate exposed. Mechanical means of preparation are recommended, followed by the removal of dust and other loose debris using an industrial vacuum.

Uneven concrete should be levelled to produce a roughened flat surface. Where repairs are required they can be carried out using Mastertop<sup>®</sup>1240Plus filled out with additional aggregate or, if time allows, a suitable product from the Emaco range.

## **Application**

Expansion, control and isolation joints in concrete substrates should be carried through Mastertop<sup>®</sup>1255 floors and filled with a suitable sealant from the BASF Construction Chemicals SA range.

Prior to application, all components of Mastertop<sup>®</sup>1255 should be stored under cover in dry conditions and protected from extremes of temperature, which may cause inconsistent workability, finish and cure times of the mixed

material. Ideally, at least 24 hours before mixing; all components of Mastertop<sup>®</sup>1255 should be stored in an air-conditioned environment.

## **Priming (Mastertop<sup>®</sup>1255Resin)**

Mix the base and reactor components of Mastertop<sup>®</sup>1255Resin together thoroughly until streak free. Apply by brush or roller at the minimum rate of 0.2kg/m<sup>2</sup> to the prepared substrate. Primer consumption may vary according to substrate profile and porosity.

Whilst the primer is still wet, immediately scatter in Mastertop<sup>®</sup>SRA3 dried silica quartz aggregate at a rate of approximately 0.6kg/m<sup>2</sup> and allow to dry. Once fully dried (8-12 hours), sweep off all excess aggregate.

## **Mixing screed**

Mixing should be carried out using a free-fall action mixer.

Mix the resin base and reactor together until streak free. Pour the mixed material into the mixer, and then with the mixer operating, add the aggregate at a resin:aggregate ratio of 1:12 by weight. Continue mixing until all the aggregate is fully coated with resin.

## **Application**

Place the mixed Mastertop<sup>®</sup>1255 onto the primed surface, (between screed battens of the correct thickness if required), spread and level off using an aluminium straight edge. Compact and finish the surface using a steel float. Allow to cure 10-12 hours.

# Mastertop<sup>®</sup> 1255

## Grout/Seal coat

The surface of Mastertop<sup>®</sup>1255 may be sealed using Mastertop<sup>®</sup>UV Filler11. When the surface is hard enough to walk on, remove any loose aggregates from the finished surface, prior to applying the sealer / top coat.

Apply using a squeegee (wiper) at a rate of 0.6kg-1.0kg/m<sup>2</sup>(depending on texture required), forcing the resin into the voids in the surface, and then roll with a short hair roller to make the surface uniform. Allow to cure for 12-18 hours.

Good curing is essential for resin-based materials to ensure specified performance. A minimum temperature of 10°C should be maintained during the curing.

## Coverage

The following Mastertop<sup>®</sup>1255 coverage rates have been calculated using theoretical and practical data.

## Priming

Mastertop<sup>®</sup>1255Resin – 0.2kg/m<sup>2</sup>

## Overlay

Mastertop<sup>®</sup>1255Resin and 2-3mm FillerF4 Aggregate Laid at 8mm – 15kg/m<sup>2</sup>

## Grout/Seal Coat (Optional)

Mastertop<sup>®</sup>UV Filler11 – 0.6-1.0kg/m<sup>2</sup>

All calculated usages assume constant thickness on a regular substrate. Failure to achieve the required surface regularity will lead to additional material being used or an uneven poor finish.

## Storage

Store under cover, out of direct sunlight and protect from extremes of temperatures.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF Construction Chemicals SA's Technical Services Department.

## Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product is fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

## Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals SA representative. BASF Construction Chemicals SA reserves the right to have the true cause of any difficulty determined by accepted test methods

## Quality and care

All products originating from BASF Construction Chemicals' SA facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001:2000.

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Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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As all BASF's technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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