

# MasterTop® 1205 (Formerly known as Mastertop® 1205)

## Two component solvent free high build epoxy floor coating

### DESCRIPTION

**MasterTop®1205** is a pigmented, solvent-free, high-build epoxy floor coating system designed to offer seamless, durable floor protection at applied thicknesses between 0.2 to 0.50mm.

With the addition of **MasterTop®Aggregate SRA 3** (slip resistant aggregates) between coats, anti-slip resistant applications can be achieved in system build-up thicknesses between 0.50 to 2.0mm.

Available in SA as a 2 part component kit.

### PRIMARY USES

**MasterTop®1205** exhibits excellent wear, abrasion and chemical resistance and is suitable for use in a wide variety of industrial and commercial applications. It can be used to provide a surface coating with a high gloss hygienic finish or a slip resistant coating system.

**MasterTop®1205** provides impermeable protection against common oils, greases, lubricants, aviation fuels and hydraulic oils such as Skydrol. As in all corrosive situations, a full analysis of operating and exposure conditions is required, followed by reference to chemical resistance data to ensure product suitability.

**MasterTop®1205** can be used extensively in, but is not limited to the following areas of application:

- Chemical manufacturing plants.
- Pharmaceutical and other medical facilities.
- Car production and showroom facilities.
- Aircraft hangers and maintenance areas.
- Warehouses with high density traffic.
- Food and beverage production areas.
- Vehicle movement areas.

### ADVANTAGES

- Excellent wear and abrasion resistance.
- Superior chemical resistance.
- Smooth high gloss finish for hygienic applications.
- Slip resistant finish in trafficable applications.
- Easy application by brush, roller or squeegee.

### PACKAGING

**MasterTop®1205** is supplied in 4 litre packs.

### COLOURS

Available in standard colours. Contact BASF Construction Chemicals SA.

### TYPICAL PROPERTIES\*

Laboratory tests carried out at 25°C	
Pot Life	Approx. 35 mins
Initial Cure	24 hours
Max. over coating time	36 hours
Final cure	7 days
Full chemical resistance	7 days
Mixed density	1.6 approx.
Max. service temp.	60°C
Flexural strength	40 N/mm <sup>2</sup>
Tensile strength	20 N/mm <sup>2</sup>
Bond strength	Greater than cohesive strength of quality

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

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## APPLICATION PROCEDURE

Remove all surface laitance, oil, grease or any defective concrete that will reduce the bond of the **MasterTop® 1205**

The surface to which the **MasterTop® 1205** is to be applied must be flat. Surface irregularities must be ground down or filled out with **MasterBrace ADH 2200** or repair materials from **MasterEmaco** range.

A light etch giving the profile of medium grit sandpaper is the ideal surface for the application of **MasterTop® 1205**, this can be achieved by light grit blasting, captive blasting or surface grinding.

After all preparation has been completed, ensure dust is removed from the surface. This is best achieved using an industrial vacuum.

## PRIMING/SEALING

**MasterTop® 1205** does not require a priming coat.

## MIXING

Add the entire contents of the reactor container into the base container and mix the two components for 2 minutes using a slow speed drill fitted with a special mixing head until all striations have disappeared and a uniform colour is obtained.

## APPLICATION

**MasterTop® 1205** is a versatile product and can be applied in various application thicknesses from 200 microns to 300 microns per coat giving DFT thickness of 0.4 to 0.6mm when applied as a two coat system. To achieve a smooth finish at application between 200 microns to 300 microns per coat, a short hair roller or brush is suitable.

For slip resistant finishes, apply the base coat first. This coat can then be scattered with **MasterTop® Aggregate SRA 3** aggregate by completely blinding at approximately 0.5-1.0kg/m<sup>2</sup>. Apply aggregate to wet base coat. After initial cure (12 hours at 40°C) the excess aggregate should be removed by brushing or vacuuming.

Alternative textures can be obtained by varying the amount of **MasterTop® Aggregate SRA 3** broadcast on to the base/sealer coat.

The top coat can now be applied. Depending on the surface profile, type and density of the **MasterTop® Aggregate SRA 3** used, the top coat may consume more material than the base coat to achieve a fully sealed surface. The top coat must be applied within the maximum over coating time period i.e. 36 hours at 25°C or 24 hours at 40°C.

Prior to application, **MasterTop® 1205** should be stored undercover and protected from extremes of temperature in an air-conditioned environment immediately prior to application.

## EXPANSION JOINTS

Expansion joints in the existing substrate floor must continue through the **MasterTop® 1205** coating. Contact your local BASF Construction Chemicals SA representative for advice on BASF Construction Chemicals SA sealants.

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## CHEMICAL RESISTANCE

Fully cured **MasterTop<sup>®</sup> 1205** samples have been tested for chemical resistance to the following chemicals for 7 days @ 25°C:

Lactic Acid 10%	Resistant (colour change)
Citric Acid 10%	Resistant
Acetic Acid 10%	Resistant
Hydrochloric Acid 18%	Resistant (colour change)
Sulphuric Acid 50%	Resistant (colour change)
Nitric Acid 20%	Resistant (colour change)
Sodium Hydroxide 50%	Resistant
Ammonia (0.880) 10%	Resistant
Petrol	Resistant
Mineral Oil	Resistant
Butanol	Resistant
Skydrol	Resistant
Saturated Sugar Solution	Resistant
Saturated Urea Solution	Resistant

## COVERAGE

### SMOOTH FINISH

4 litre pack of **MasterTop<sup>®</sup> 1205** covers 20m<sup>2</sup> @ a DFT of 200 microns (two coats required).

### SLIP-RESISTANT FINISH

4 litre pack of **MasterTop<sup>®</sup> 1205** covers 16m<sup>2</sup> at a DFT of 250 microns (2 coats required). **MasterTop<sup>®</sup> Aggregate SRA 3** approx. 0.5-1.0kg/m<sup>2</sup>.

## EQUIPMENT CARE

Remove uncured **MasterTop<sup>®</sup> 1205** from tools and equipment using **Xylene**. If **MasterTop<sup>®</sup> 1205** has cured then it can only be removed by mechanical means.

## 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 South Africa are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, 2008.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries.

### 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.