

# MasterTop 1205

## Two-component solvent free high build epoxy floor coating

### MATERIAL 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 0.40mm.

With the addition of **MasterTop SR 1** or **MasterTop Aggregate SR 3** (slip resistant aggregates) between coats, anti-slip resistant applications can be achieved in system build-up thicknesses between 0.50 to 1.0mm.

### TYPICAL APPLICATIONS

**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 as a 32kg (20L) multi component pack (including colour pack).

### COLOURS

Available in standard colours. Contact Master Builders Solutions.

### 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	Approx. 1.6kg/L
Max. service temp.	60°C
Flexural strength ASTM C580	40 N/mm <sup>2</sup>
Tensile strength ASTM C307	20 N/mm <sup>2</sup>
Bond strength BS 1881 Part 207	>1.5 N/mm <sup>2</sup>

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

### 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 and Sealing:

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

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### Mixing:

Add the entire contents of the **MasterTop 1205** PTA and PTB and **MasterTop Col Pack** and mix the three components for 2 minutes using a slow speed drill (300-400 rpm) fitted with a spiral mixing paddle 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 250 microns per coat giving DFT thickness of 0.4 to 0.5mm when applied as a two-coat system. To achieve a smooth finish at application between 200 microns to 250 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 SR 1 or SR 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 SR 1 or SR 3** broadcast on to the base/sealer coat.

The topcoat can now be applied. Depending on the surface profile, type and density of the **MasterTop Aggregate SR 1 or SR 3** used, the topcoat may consume more material than the base coat to achieve a fully sealed surface. The topcoat 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 Master Builders Solutions representative for advice on Master Builders Solutions sealants.

### CHEMICAL RESISTANCE

Fully cured **MasterTop 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
Petro	Resistant
Mineral Oil	Resistant
Butanol	Resistant
Skydrol	Resistant
Saturated Sugar Solution	Resistant
Saturated Urea Solution	Resistant

### COVERAGE

#### Smooth Finish:

20 litre pack of **MasterTop 1205** covers 100m<sup>2</sup> at a DFT of 200 microns (two coats required), i.e. 0.2 L/m<sup>2</sup>/coat.

#### Slip-Resistant Finish:

20 litre pack of **MasterTop 1205** covers 80m<sup>2</sup> at a DFT of 250 microns (2 coats required). i.e. 0.25 L/m<sup>2</sup>/coat.

**MasterTop SR 1 or SR 3** approx. 0.6-1.0kg/m<sup>2</sup>.

Above coverages do not allow for any wastage and coverages may vary depending on the porosity and profile of the concrete substrate.

### EQUIPMENT CARE

Remove uncured MasterTop 1205 from tools and equipment using Xylene. If MasterTop 1205 has cured then it can only be removed by mechanical means.

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### STORAGE AND SHELF LIFE

Store under cover, out of direct sunlight, clear of the ground and on pallets. Protect from rainfall. Avoid excessive compaction and protect from extremes of temperature. The shelf life is 12 months when stored as above.

### 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

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

### QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

\* Properties listed are based on laboratory controlled tests.

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