

# MasterTop® 1205

High build, solvent-free epoxy coating for concrete floors

## DESCRIPTION OF PRODUCT

**MasterTop 1205** is a two component, solvent-free epoxy floor coating system, which provides hardwearing, abrasion-resistant flooring system.

**MasterTop 1205** is applied to produce a smooth or slip-resistant finish.

**MasterTop 1205** also provides a high build pigmented sealer as a topcoat for **MasterTop 1240** to provide a decorative and easy to clean floor.

## PRIMARY USES

**MasterTop 1205** has good wear and abrasion resistance and is suitable for use in many industrial applications. It can be used as a surface coating where a hygienic and high gloss appearance is required.

Also, it can also provide an anti-slip finish which is suitable for use in wet areas.

**MasterTop 1205** provides impermeable protection against common oils, greases, lubricants, aviation fuels or oils such as Skydrol. In addition, it offers good general chemical resistance, but 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** is used extensively in the following industries:

- Pharmaceutical and other medical laboratory situations
- Food processing and production – including dairies, bakeries, mills and confectioners
- Beverage production – including soft drinks manufacture
- Industrial and commercial kitchens
- Engineering – including aircraft hangars, car production facilities and maintenance areas
- Warehouses – for installations with a medium frequency and volume of traffic

## ADVANTAGES

- Excellent wear and abrasion resistance
- Solvent-free
- Slip resistance finish available
- Easily applied
- Smooth high gloss finish for hygienic applications
- Good general chemical resistance
- Limited maintenance
- Attractive and serviceable colours

## PACKAGING

**MasterTop 1205** is supplied in 5kg units.

## COLOURS

**MasterTop 1205** is available in a wide range of colours: light grey; mid grey; dark grey; yellow and red.

## TYPICAL DATA OF HARDENED MATERIAL

Pot Life:	at 20°C	120 minutes
	at 30°C	90 minutes
Tack-free time:		Approx. 4 hours at 35°C
Dry film thickness:		200 – 250 microns/coat
Mixed density:		1.45 ± 0.10kg/ltr at 25°C according to the colour
Maximum service temperature:		60°C
Initial cure:		12 hours at 30°C
Final cure:		7 days at 30°C
Bond to concrete:		In excess of the cohesive strength of concrete
Compressive strength:		75N/mm2
Flexural strength:		38N/mm2
Tensile strength:		20N/mm2

# MasterTop® 1205

## GUIDE TO APPLICATION SURFACE PREPARATION:

All contamination must be removed and a sound, clean substrate is exposed.

Mechanical means of preparation (such as light grit blasting, high pressure water jetting or grinding) are preferred, followed by the removal of dust and other loose debris, using an industrial vacuum.

A clean prepared surface will ensure adhesion between substrate and coating and will improve the long-term durability.

The ideal surface profile for the application of **MasterTop 1205** is the texture of medium grit sand paper.

Ensure that the concrete is at least 28 days old. Do not apply if the moisture content of the concrete substrates exceeds 4%. The substrates can be considered sufficiently dry when the relative humidity at the surface falls to 75% or less when measured with a hygrometer to BS 8201: 1981.

The surface over which the **MasterTop 1205** is to be laid must be flat and roughened.

Surface irregularities must be ground down or filled out with **MasterBrace ADH 2200**. All blow holes and surface imperfection must be made good using CONCRETE 2150 prior to the application of **MasterTop 1205**.

## PRIMING:

All concrete surfaces to be overlaid with **MasterTop 1205** should be primed with **MasterTop 1200** diluted with 5% solvent. Add the solvent to the base and reactor components, after they have been decanted into the mixing container; then mix the base and reactor components together until all striations have disappeared. Apply the mixed material to the dry substrate at the rate of 5-7m<sup>2</sup>/kg using a medium or short-haired roller. Allow the primer to become completely tack-free before over-coating with **MasterTop 1205**. Alternatively,

**MasterTop 1205** can be diluted with 10% solvent and used as the primer coat. **MasterTop P 651** epoxy primer can be used as an alternative.

## MIXING:

Pour the base and the reactor into a suitable mixing vessel and mix using a slow speed drill with spiral mixing paddle attached, until all striations have disappeared and a uniform colour is obtained.

## APPLICATION:

Ensure that the substrate is free from dust and building debris and that the area has been secured to prevent intrusion of dust, airborne particles, insects, small animals, etc. Make sure that windows and doors are closed.

To avoid colour deviation from one batch of the resin to another, only use resins with the same batch number in the same area.

Apply two coats of **MasterTop 1205** by short/medium-haired roller and allow at least 18 hours but not more than 36 hours between coats.

The second coat should be applied at a right angle to the first coat.

If the application of **MasterTop 1205** is delayed more than 16 hours at 40°C and 36 hours at 20°C after the application of the primer, then the primer must be thoroughly abraded to give an adequate mechanical key and solvent wiped.

**MasterTop 1205** should be allowed to dry 24 hours prior to receiving light traffic. Full cure is achieved after 7 days.

## SLIP RESISTANCE:

**MasterTop 1205** provides a smooth, glossy finish. A slip-resistant finish can also be achieved by evenly sprinkling **MasterTop SR 3** on the wet applied first coat of **MasterTop 1205**.

Leave it till it reaches initial cure and remove the excess aggregate by vacuum cleaner.

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Apply a topcoat of **MasterTop 1205** within 18-36 hours ensuring that a continuous film is achieved. Please note that some reduction in gloss will result.

## CHEMICAL RESISTANCE:

**MasterTop 1205** has been tested for resistance to the following chemicals through spillage, dripping and splashes, provided that regular cleaning/housekeeping must be applied whenever possible:

Fuel Oil:	Excellent
Diesel:	Excellent
Kerosene:	Excellent
Sodium Chloride:	Excellent
Sodium Hydroxide 50%:	Good
Calcium Chloride:	Excellent
Calcium Hydroxide:	Excellent
Dairy products:	Excellent
Sugar solution:	Excellent
Phosphoric Acid 20% solution:	Good
Acetic Acid 50% solution:	Good
Sulfuric Acid 50% solution:	Good
Nitric Acid 20% solution:	Good
Lactic Acid 10% solution:	Good

## COVERAGE

Approximately 0.29-0.36kg/m<sup>2</sup>/coat at 200-250 microns DFT.

## EQUIPMENT CARE

Remove uncured **MasterTop 1205** immediately from tools and equipment, using solvent.

## STORAGE

Store out of direct sunlight, clear of the ground, on pallets protected from rainfall. Avoid excessive compaction and protect from extremes of temperatures. In tropical climates, the product must be stored in an air-conditioned environment.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

For specific storage and disposal advice, consult Master Builders Solutions's Technical Services Department.

## SHELF LIFE

Up to 12 months if stored in unopened containers according to manufacturer's instructions.

## 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 has fully cured or dried).

Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Re-seal containers after use.

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

\* Properties listed are based on laboratory controlled tests.

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