

# MasterTop<sup>®</sup> 1210

## Multi component solvent free epoxy floor coating system

### DESCRIPTION

**MasterTop 1210** is a multi-component solvent free epoxy floor coating system designed to offer continuous seamless floor protection at thicknesses between 1.0-2.0 mm.

**MasterTop 1210** may be applied to produce either a smooth or profiled finish.

### TYPICAL APPLICATIONS

**MasterTop 1210** 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.

It 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 1210** may be applied in the following industries

NB This gives examples only and does not constitute a full and comprehensive list. For further information on application possibilities contact Master Builders Solutions Construction Chemicals LLC.

- Pharmaceutical and other medical laboratory situations.
- Industrial production facilities
- Light engineering workshops
- Aircraft hangars and maintenance areas
- Warehouses
- Utility rooms and corridors
- Vehicle movement areas

### ADVANTAGES

- Good wear and abrasion resistance
- Easily applied
- Smooth high gloss finish for hygienic applications
- Good general chemical resistance
- Limited maintenance
- Durable

### PACKAGING

**MasterTop 1210** is supplied as a 32 kg multi component pack (including colour pack).

### TYPICAL PROPERTIES\*

Laboratory tests carried out at 25°C

Pot life	40 min
Curing time	15 h
Mixed density at 25°C	1.556 kg/L
Maximum service temp	60°C
Compressive strength ASTM C579	>85 N/mm <sup>2</sup>
Flexural strength BS 6319 Part 3 / ASTM C580	>45 N/mm <sup>2</sup>
Tensile strength BS 6319 Part 7 / ASTM C307	>16 N/mm <sup>2</sup>
Slip resistance / Pendulum Friction Test Standard BS 7976-2: 2002	>80
Pull off strength ASTM D4541	>3.0 N/mm <sup>2</sup>

If required **MasterTop 1210** can be overcoated with **MasterSeal TC 257**, **MasterSeal TC 258** and **MasterTop TC 943** (innovative scratch resistance topcoat).

Refer to the method statement for coverages and application details.

### APPLICATION GUIDELINES

Remove all surface laitance, oil, grease or any defective concrete that will reduce the bond of the **MasterTop 1210** to the substrate.

The surface over which the **MasterTop 1210** is to be laid must be flat and suitably prepared.

Surface irregularities must be ground down or filled out with **MasterTop 2200** or repair materials from the **MasterEmaco** range.

A light etch giving the texture of medium grit sand paper is the ideal surface profile for the application of **MasterTop 1210**, this can be achieved by light grit blasting, capture blasting or surface grinding. After all preparation has been completed, ensure dust is removed from the surface preferably by vacuuming.

Prior to application **MasterTop 1210** should be stored under cover in an air-conditioned environment and protected from extremes of temperature which may cause inconsistent workability, finish and cure times for the mixed material.

All porous concrete surfaces to be overlaid with **MasterTop 1210** must be sealed with a coat of **MasterTop 1200** with the addition of 0.5 L of a suitable thinner (Xylene / MEK / Acetone).

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Add the thinner (Xylene / MEK / Acetone) to the base (PTA) and reactor (PTB) 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 6-8 m<sup>2</sup> / L using a medium or short hair roller. Allow the sealer to become completely tack free before over-coating with **MasterTop 1210**.

## MIXING

Pour the contents of the colour pack into the base (PTA) and then mix the components together using a slow speed (300 – 600 rpm) hand held mixer fitted with a suitable mixing paddle; Collomix DLX mixing head or similar. Mix for no less than 1 minute, before pouring this into a clean large size mixing bucket (>20 L) and then adding the **MasterTop 1210** filler (PTC), whilst continuing to mix until a uniform colour is obtained, free of streaks or lumps of unmixed filler (PTC) (minimum 2 minutes). Remix the pre-mixed base (PTA) + colour pack + filler (PTC) for 30 seconds and then add the reactor (PTB) and continue to mix until a streak free even colour is reached and there are no visible lumps of filler (PTC), etc.

## PLACING / APPLICATION

**MasterTop 1210** can be applied using notched or plain trowels, pin screeds, squeegees or airless spray.

The coating should be rolled with a spike roller as soon as possible after application to achieve a uniform finish. The applied coating should be rolled a second time after 15-20 minutes. Continuous rolling does not harm the product while it is still fluid.

Always wear spiked shoes when rolling the **MasterTop 1210** with a spiked roller.

## CLEANING

Remove uncured **MasterTop 1210** from tools and equipment using a suitable thinner (Xylene / MEK / Acetone).

## COVERAGE / YIELD

A 32 kg unit will yield approx. 20.56 L of mixed material.

**MasterTop 1210 systems are supplied in preweighed packs which should not be split or divided. It is important to use complete packs.**

## STORAGE AND SHELF LIFE

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.

The shelf life is 12 months when stored as above.

## HEALTH AND SAFETY

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 products is fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use.

## QUALITY AND CARE

All products originating from Master Builders Solutions 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 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

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## STATEMENT OF RESPONSIBILITY

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## NOTE

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