

MasterTop 1210

Multi component solvent free epoxy floor coating system

MATERIAL DESCRIPTION

MasterTop 1210 is a multi-component solvent free epoxy floor coating system designed to offer continuous seamless floor protection at thicknesses between 1mm - 1.5mm. **MasterTop 1210** may be applied to produce either a smooth or profiled finish.

PRIMARY USES

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.

- 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 32kg multi component pack (including colour pack).

Part A = 10.5kg

Part B = 4.5kg

Part C = 16.6kg

Pigment pack = 0.4kg

TYPICAL PROPERTIES*

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

If required **MasterTop 1210** can be overcoated with **MasterSeal TC 257**, **MasterSeal TC 258** and **MasterTop TC 941** containing **Xolutec**.

Refer to the method statement for coverages and application details.

GUIDE TO APPLICATION

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 **MasterBrace ADH 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

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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.

Priming and Sealing:

All porous concrete surfaces to be overlaid with **MasterTop 1210** must be primed/sealed with a coat of **MasterTop 1200** with the addition of 0.5ltr of Xylene. Add the Xylene 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 6-8 m² / litre 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) handheld 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 two minutes). Remix the pre-mixed base (PTA) + colour pack and 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 and 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.

YIELD

A 32kg kit will yield 20.56 litre of mixed material. **MasterTop 1210** systems are supplied in pre-weighed packs which should not be split or divided. It is important to use complete packs.

EQUIPMENT CARE

Remove uncured **MasterTop 1210** from tools and equipment using Xylene.

STORAGE AND SHELF LIFE

Store out of direct sunlight, clear off 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.

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

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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

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* Properties listed are based on laboratory controlled tests.

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