

MasterTop® 1210

Multi-component, solvent-free epoxy coating for concrete floors

DESCRIPTION OF PRODUCT

MasterTop 1210 is a multi-component, solvent-free epoxy floor coating system, which is designed for continuous protection in light to medium duty applications at thicknesses between 0.5-1.5mm.

MasterTop 1210 is applied to produce a smooth 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 is used extensively in the following industries:

Pharmaceutical and other medical laboratory situations
Car production facilities
Aircraft hangars and maintenance areas
Warehouses for installations with a medium frequency and volume of traffic
Traffic decking - including pedestrian and light duty vehicles

ADVANTAGES

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

PACKAGING

MasterTop 1210 is supplied as a 28.5kg multi-component pack.

COLOURS

MasterTop 1210 is available in a wide range of colours: light grey; medium grey; dark grey; beige; red; blue and green.

TYPICAL DATA OF HARDENED MATERIAL

Cured at 7 days @20°C		
Pot Life:	10°C	100 minutes
	20°C	60 minutes
	30°C	30 minutes
Density:		1.53
Maximum service temp:		60°C
Absorption (ASTM C413-80):		0.06%
		1.5N/mm ²
Bonding strength:	DIN ISO 4624	(concrete failure)
Abrasion resistance:	DIN 53754-Taber	98mg
Modulus of elasticity:	DIN 1048	9000N/mm ²

SURFACE PREPARATION

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

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

Surface irregularities must be ground down or filled out with **MasterBrace ADH 2200**.

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 or high pressure water jetting, captive blasting or surface grinding.

MasterTop[®] 1210

After all preparation has been completed, ensure dust is removed from the surface preferably by vacuuming. Specialist finishes should not be applied to concrete, which contains more than 5% moisture, by mass. The substrate 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.

GUIDE TO APPLICATION

Prior to application, **MasterTop 1210** should be stored under cover and protected from extremes of temperature. Failure to do this can cause inconsistent workability, finish and cure times for the mixed material. Ideally, at least 24 hours before mixing,

MasterTop 1210 should be conditioned at approximately 20°C.

When working in cold conditions, do not apply **MASTERTOP 1210i M** if the substrate or ambient temperature cannot be maintained above 10°C for at least 10 days from the start of application.

SEALING:

All concrete surfaces to be overlaid with **MasterTop 1210** must be sealed with a coat of **MasterTop 1200** resin with the addition of 0.5ltr of 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 6-8m²/kg using a medium or short hair roller. Allow the sealer to become completely tack free before over coating with **MasterTop 1210**. **MasterTop P 651** epoxy primer can be used as sealant coat.

MIXING:

Pour the base, reactor and colour pack into a suitable mixing vessel (minimum size 20ltr) and

mix using a drill and spiral mixing head until all striations have disappeared and a uniform colour is obtained. Add the **MasterTop 1210** aggregate, whilst continuing to mix for a further 2 minutes or until it can be seen that the mixed material is lump free.

APPLICATION:

To achieve a smooth finish apply the **MasterTop 1210** with a short hair roller or squeegee, as a single coat at a minimum thickness of 0.5mm. To apply at thickness greater than 0.5mm, use a pin screed or trowel.

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.

MAINTENANCE:

To keep the floor in pristine condition, it should be treated with 2 or 3 coats of an acrylic emulsion polish with a metallic base.

A 28.5kg unit will yield 18.62ltr of mixed material.

WATCHPOINTS

MasterTop 1210 is suitable for application to smooth surfaces only.

EQUIPMENT CARE

Remove uncured **MasterTop 1210** 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.

MasterTop® 1210

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 medical attention. Re-seal containers after use.

SHELF LIFE

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

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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