

# MASTERTOP®

## 1210 PLUS

### Multi component solvent free epoxy floor coating system

#### Description

MASTERTOP 1210 PLUS is a multi component solvent free epoxy floor coating system designed to offer continuous seamless floor protection at thicknesses between 0.5mm-1.5mm. MASTERTOP 1210 PLUS may be applied to produce either a smooth or profiled finish.

#### Primary uses

MASTERTOP 1210 PLUS 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 PLUS 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 Degussa .

- 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 PLUS is supplied as a 26kg multi component pack (including colour pack).

#### Typical data of hardened material\*

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

	25°C	40°C
Pot life	40 mins.	22 mins.
Curing time	15 hours	10 hours
Mixed density at 25°C	1.556	
Mixed density with Solvent No. 2		
Maximum service temp	60°C	
Compressive strength (ASTM C579-93)		
1 day	36.4	48.6
3 days	69.6	70.6
14 days	79.4	80.2
Flexural Strength (BS 6319 Part 3)	19.0N/mm <sup>2</sup>	
Tensile Strength (BS 6319 Part 7)	15.0N/mm <sup>2</sup>	
Slip resistance (TRRL rubber)	104	

## Guide to application

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

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

Surface irregularities must be ground down or filled out with CONCRETE 2200 or repair materials from the EMACO range.

A light etch giving the texture of medium grit sand paper is the ideal surface profile for the application of MASTERTOP 1210 PLUS, 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 PLUS 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.

### Sealing:

All porous concrete surfaces to be overlaid with MASTERTOP 1210 PLUS must be sealed with a coat of MASTERTOP 1200 PLUS resin with the addition of 0.5ltr of SOLVENT NO. 2. Add the SOLVENT NO. 2 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 m<sup>2</sup> / ltr using a medium or short hair roller. Allow the sealer to become completely tack free before over-coating with MASTERTOP 1210 PLUS.

### Mixing:

Pour the reactor into the base container, add the colour pack and mix using a drill and spiral mixing head until all striations have disappeared and a uniform colour is obtained (for a minimum of 1 minute). Add the MASTERTOP 1210 PLUS 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 at 0.5mm apply the MASTERTOP 1210 PLUS, as a single coat with a notched trowel or similar. At thickness greater than 0.5mm, use pin screed, trowel 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 PLUS with a spiked roller.

### Yield

A 26kg unit will yield 16.71 litre of mixed material.

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

### Equipment care

Remove uncured MASTERTOP 1210 PLUS from tools and equipment using SOLVENT NO

### 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.

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

### Note

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

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

### Quality

All products produced by Degussa certified manufacturing facilities, are produced to conform to systems designed to meet internationally recognised quality standards.

08/2005 Degussa-IR