

MASTERTOP® 1230 PLUS

Self smoothing solvent free, epoxy overlay system for concrete floors

Description

MASTERTOP 1710 is a multi-component, water based, vapour permeable epoxy floor coating system, designed for continuous protection at application thicknesses between 0.8mm-2.0mm. MASTERTOP 1710 is formulated to produce a smooth, non-gloss, slip-resistant finish, even in wet conditions. The system is water vapour permeable allowing its use on damp substrates, so may be used to coat green concrete floors, which it will additionally help to cure and fully hydrate. It may also be used effectively on substrates with no functioning damp proof membrane.

Primary uses

MASTERTOP 1710 has good wear and abrasion resistance and can be used as a surface coating where a hygienic and matt appearance is required, and is especially suitable in food, beverage, and wet process industries.

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 1710 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 M.E.

Pharmaceutical and other medical laboratory situations.
Food and beverage production
Production and processing facilities.
Aircraft hangars and maintenance areas.
Warehouses.
Schools and hospitals
Hotels

Advantages

- ☐ Good wear resistance.
- ☐ Cures at low temperatures (5°C)
- ☐ Smooth non-gloss finish - easily cleaned.
- ☐ Good general chemical resistance.
- ☐ Low odour, non-taint
- ☐ Can be applied to damp or green concrete.

Packaging

MASTERTOP 1710 is supplied in 25kg units (including colour pack).

Typical properties*

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

Working time	30°C	25 minutes
Abrasion resistance	110-130	Taber CS17 1kg/1000 RPM
Bond strength		Concrete failure
Density:		1.51
Maximum service temperature:		-20 to +60°C
Water vapour permeability	20,000	DIN 52615

Guide to application

Remove all surface laitance, oil, grease or any defective concrete that will reduce the bond of the MASTERTOP 1710 to the substrate.

Surface irregularities must be ground down or filled out with CONCRETSIVE 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 1710, this can be achieved by captive blasting, light grit blasting or high pressure water jetting.

After all preparation has been completed, ensure all dust is removed from the surface. MASTERTOP 1710 may be applied to green concrete that has been given a light brush finish, providing minimum laitance is present.

Application:

Prior to application MASTERTOP 1710 should be stored under cover in air-conditioning and protected from.

extremes of temperature which will cause inconsistent workability, finish and cure times for the mixed material

Sealing:

All concrete surfaces to be overlaid with MASTERTOP 1710 can be saturated with clean water to reduce localised suction and reduce the incidence of pin holes. If the concrete substrate is very porous the saturated substrate should be sealed with a single coat of MASTERTOP 1700 resin without the addition of the aggregate.

Pour the base and reactor component into a clean vessel and mix together for 1 minute or until all striations have disappeared. Apply the mixed material to the pre soaked substrate ensuring there is no standing water, at the rate of 5-8 m² / litre using a medium or short hair roller. Allow the sealer to become completely tack free before overcoating with MASTERTOP 1710.

Mixing / application:

Do not mix the components in the reactor container as minor settlement may occur. Pour the reactor, base and colour pack into a 20ltr container and mix thoroughly using a suitable drill and paddle for a minimum of 1 minute, or until all striations have disappeared. When all striations have disappeared and a uniform colour is obtained, add the MASTERTOP 1710 aggregate, whilst continuing to mix until it can be seen that the mixed material is lump free.

Application:

To achieve a smooth finish apply the MASTERTOP 1710 with a pin screed trowel or squeegee, as a single coat at a minimum thickness of 0.8mm. For thickness greater than 0.8mm, apply by pin screed or serrated trowel.

The coating should be rolled with a spike roller as soon as possible after application to achieve a uniform finish. Rolling should continue until all air is released and a uniform colour is obtained.

Always wear spiked shoes when rolling the MASTERTOP 1710 with a spiked roller.

Watchpoint

MASTERTOP 1710 is suitable for application to flat surfaces only.

Yield

A 25kg unit of MASTERTOP 1710 will yield 16.5 litres.

MASTERTOP 1700 Resin only will yield 10.7 litres.

Coverage as sealer will be in the range of 5-8m²/litre.

Equipment care

Remove uncured MASTERTOP 1710 from tools and equipment using water.

Storage

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction and protect from extremes of temperatures.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Degussa's Technical Services Department.

Safety precautions

Request and refer to printed MSDS.

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 DegussaIR