

# MASTERTOP<sup>®</sup> 1700 RESIN

## Two-component water based epoxy resin

### Description

MASTERTOP 1700 Resin is the polymer component and surface sealer for Mastertop 1710 and 1730 flooring products; and may be used as the sealer/topcoat for MASTERTOP 1740 epoxy screed. When mixed and applied the resin is water vapour permeable allowing its use on damp substrates and to coat 'green' concrete floors, which it will additionally help to cure and fully hydrate.

### Primary uses

MASTERTOP 1700 Resin is used as the surface sealer/Primer for MASTERTOP 1710, 1730 and as a topcoat for MASTERTOP 1740 epoxy screed.

In this application MASTERTOP 1700 Resin has good wear and abrasion resistance and is suitable for use with 1740 in many industrial applications. It 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 1700 Resin as a topcoat is used extensively in the following industries:

- Pharmaceutical & medical laboratory situations.
- Food and beverage production.
- Car production facilities.
- Aircraft hangars and maintenance areas.
- Warehouses - for installations with a medium frequency and volume of traffic.
- Traffic decking & Carparks

### Advantages

- Good wear and abrasion resistance.
- Easily applied.
- Seals porous substrates
- Easily cleaned
- Good general chemical resistance.
- Non-slip when wet.
- Can be applied to damp or green concrete.

### Packaging

MASTERTOP 1700 Resin is supplied in 11.29kg units or special packaging to suit project requirements.

Colour pack available separately in 0.6kg units.

### \*Typical properties

Working time	30°C	25 minutes
Abrasion resistance	110-130	Taber CS17 1kg/1000 RPM
(+ 1710 aggregate)		
Bond strength		Concrete failure
Density:		1.050-1.055
Density with colour pack		1.088
Maximum service temperature:		-20 - + 60°C
Water vapour permeability	20,000	DIN 52615



The Chemical Company

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## Guide to application

### As a Sealer/Primer

Remove all surface laitance, oil, grease or any defective concrete that will reduce the bond of the MASTERTOP 1700 Resin to the substrate.

Surface irregularities must be ground down or filled out with CONCRECIVE 2200 or repair materials from the EMACO & MASTERTOP ranges.

A light etch giving the texture of medium grit sand paper is the ideal surface profile for the application of MASTERTOP 1700, this can be achieved by captive blasting, light grit blasting or high pressure water jetting.

After preparation has been completed, ensure all dust is removed from the surface.

MASTERTOP 1700 may be applied to 'green' concrete which has been given a light brush finish.

Prior to application MASTERTOP 1700 should be stored under cover and protected from extremes of temperature which will cause inconsistent workability, finish and cure times for the mixed material. Ideally at least 24 hours before mixing, MASTERTOP 1700 should be conditioned at approximately 20°C.

All concrete surfaces to be overlaid with MASTERTOP 1700 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.

When used as a topcoat and surface sealer of MASTERTOP 1240 it may be applied as soon as the surface is firm enough to walk on without

leaving impressions. It must be applied before the screed is opened to traffic and ideally within 48 hours.

### Mixing / application:

Pour the base into the reactor, add the colour pack and mix for 1 minute using a drill and spiral mixing head.

When all striations have disappeared and a uniform colour is obtained the material is ready for use.

### As a Sealer/Primer & Topcoat to MASTERTOP 1740

Pour the base into reactor component 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 6-8 m<sup>2</sup> / ltr using a medium or short hair roller. Allow the sealer to become completely tack free before overcoating with MASTERTOP 1710 or 1730.

### Topcoat Application for MASTERTOP 1740

Apply the MASTERTOP 1700 with a squeegee or rubber bladed wiper and backrolled to achieve the desired degree of surface sealing.

### Watchpoint

MASTERTOP 1700 is suitable for application to smooth surfaces only. Coverage is dependent on surface porosity and regularity. Rates given are indicative only.

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## Yield

MASTERTOP 1700 Resin standard pack of 11.29kg will yield 10.7 litres of mixed material.

Coverage will be in the range of 6-8m<sup>2</sup>/litre.

## Equipment care

Remove uncured MASTERTOP 1700 from tools and equipment using water.

## Storage

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. In tropical climates the product must be stored in an air conditioned environment.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF'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 BASF representative.

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

## Quality and care

All products originating from BASF's 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, ISO 14001 and OHSAS 18001.

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\* Properties listed are based on laboratory controlled tests.

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