

# MASTERTOP™ 1700 Primer

## Water based epoxy primer for MASTERTOP 1700 Series

### Description

MASTERTOP 1700 Primer is a VOC free, water based, low viscosity, transparent two-component epoxy based impregnating primer.

### Uses

MASTERTOP 1700 Primer is used as impregnating primer for mineral substrates such as concrete and mortar screeds with MASTERTOP 1700 series flooring.

### Advantages

- Low viscosity
- High capillary penetration
- Easy to apply
- Good mechanical properties
- Breathable to water vapour
- Resistant to water, sea and waste water, as well as a variety of alkalis, diluted acids, brine, mineral oils, lubricants and fuels.

### Typical Properties

Mixed density	: 1.07 g/cm <sup>3</sup> at 25°C
Mixing ratio, by weight	: 100 (Base); 270(Hardener)
Volume solids	: 46 ± 3%
Pot life	: 60 Minutes at 25°C : 25 Minutes at 40°C
Tack free	: 16 Hours at 25°C : 12 Hours at 40°C
Overcoating times:	: 12 Hours (minimum) : 48 Hours (maximum)
Adhesion bond strength to concrete (ASTM D4541)	: > 1.5 MPa (concrete failure)

### Specification Clause:

The water based epoxy primer shall be MASTERTOP 1700 Primer, VOC-free and 2-component system. The primer shall be fast drying type with tack free time not exceeding 16 hours at 25°C and 12 hours at 40°C. The primer shall exhibit excellent bond strength by exceeding adhesion of 1.5 MPa as per ASTM D 4541 testing. The primer shall be water based and shall be breathable to water vapour.

### Directions for use

#### Temperature Requirements

- Substrate temperatures: 15°C – 35°C
- Material temperatures: 15°C – 30°C

Very low or very hot temperatures will make application more difficult and careful consideration should be given to storage of materials. In the cold weather conditions, pre-condition materials by keeping it in a heated room. In hot weather conditions, some form of air-conditioned storage is

required. Pre-conditioned materials at 20-25°C will reduce the possibilities of flash/slow setting and other defects.

### Surface Preparation

All substrate (new and old) must be structurally sound, dry and free from laitance and loose particles. Clean oil, grease, and rubber skid marks, paint stains and other adhesion impairing contaminants from substrate. Shot blasting, grinding or scarifying are the preferred floor preparation methods. After surface preparation, the adhesive bond strength of the substrate should exceed 1.5 MPa.

### Mixing

MASTERTOP 1700 PLUS Primer is supplied in working packs which are pre-packaged in exact ratio of component A (Base) and component B (Hardener). Pour the entire contents of part A into the container of part B. DO NOT MIX BY HAND. Mix with mechanical drill & paddle at a very low speed for at least 3 minutes. After proper mixing to a homogeneous consistency, pour the mixed parts A and B in to a fresh container and mix for another minute.

### Application

MASTERTOP 1700 Primer should be applied when the ambient temperature is constant or falling as this will decrease the risk of bubble formation due to expansion of air that is enclosed in the concrete. After mixing, MASTERTOP 1700 Primer is applied to the prepared substrate by roller/ paint brush. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time & curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly.

After application, the material should be protected from direct contact with water for approx. 24 hours.

### Coverage

Coverage rates will vary according to the nature of the substrate.

1 Kg primer shall cover 5 – 8 m<sup>2</sup> and provide average 60 microns DFT, depending upon the porosity of the substrate.

### Packaging

MASTERTOP 1700 Primer is supplied in 1kg and 5kg packs.



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### Storage and Shelf life

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 4 months when stored as above.

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

### 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 fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumables such as food stuff & water. For further information refer to the material safety data sheet. MSDS is available on demand or on BASF construction chemicals web site.

### Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact your local BASF representative.

### Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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