

MASTERTOP® CP 687 W-AS

Epoxy conductive primer

DESCRIPTION

MASTERTOP CP 687 W-AS is a conductive solvent free, low viscosity, black pigmented two component conductive primer based on a liquid epoxy resin.

RECOMMENDED FOR

MASTERTOP CP 687 W-AS is used indoors as a conductive layer on primed mineral substrates such as concrete and cement screeds.

It is used in the systems **MASTERTOP 1270 AS**, **MASTERTOP 1270 AS-R** and **MASTERTOP 1328 AS** for flooring applications where anti-static properties are required.

FEATURES AND BENEFITS

- Low viscosity
- Easy to apply
- Anti-static properties
- Always top-coated with an anti-static floor coating system (eg **MASTERTOP BC 370 AS** or **MASTERTOP BC 375 AS**)

TECHNICAL DATA

Mixing ratio A:B	In parts by weight	2:3
Mixed density		1.07 g/cm ³
Solid content	By volume	35%
Pot-life (15kg drum)	At 20°C/60% rel. humidity	60 minutes
Re-coating interval/ready for traffic	At 20°C	Min. 12 hours Max. 24 hours
Fully cured	At 20°C	5 days
Substrate and application temperatures		Min. 12°C Max. 30°C
Max. permissible relative humidity		75%

The above figures are intended as a guide only and should not be used as a basis for specifications

APPLICATION METHOD

MASTERTOP CP 687 W-AS is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 25 °C.

Pour the entire contents of part B into the container of part A. DO NOT MIX BY HAND. Mix with a mechanical drill and paddle at a very low speed (ca. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing.

Keep the mixer blades submerged in the coating to avoid introducing air bubbles. DO NOT WORK OUT OF THE ORIGINAL CONTAINER.

After proper mixing to a homogeneous consistency pour the mixed parts A and B into a fresh container and mix for another minute.

After mixing, **MASTERTOP CP 687 W-AS** is applied to the pre-treated substrate by paint-roller or a brush. On horizontal surfaces, the material is distributed with a rubber squeegee and finished with a paint-roller. **MASTERTOP CP 687 W-AS** should not be diluted.

The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. **MASTERTOP CP 687 W-AS** shows no clear end of pot-life symptoms. Therefore, please ensure that the mixed material is used up within 1 hour (at 20 °C).

To fully cure, the material, substrate and application temperature should not fall below the minimum. After application, the material should be protected from direct contact with water for approximately 24 hours (at 20°C). Within this period, contact with water can cause a surface bloom and/or surface tackiness, both of which must be removed. Carbamate has a marked effect on the conductivity of the coating and has to be removed.

SUBSTRATE PREPARATION

MASTERTOP CP 687 W-AS must be applied to substrates primed with e.g. primer **MASTERTOP P 601**. The substrate must be load bearing, free of loose and brittle particles as well as substances, which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. Pretreatment is only necessary when the re-coating interval of the conductive layer has been exceeded. If necessary, the conductive layer must be renewed. After surface preparation the tensile strength of the substrate should exceed 1.5 N/mm² (check with an approved pull-off tester i.e. "Herion" at a load rate of 100 N/s). the residual moisture content of the substrate must not exceed 4 % (check with e.g. CM device).

The temperature of the substrate must be at least 3 K above the current dew point temperature. A damp proof cause must have been properly installed and intact.

YIELD

Normally: 80 – 100 g/m²

System Mastetop 1278 AS: 120 – 150 g/m²

Refer to System Data Sheets **MASTERTOP 1270 AS**, **MASTERTOP 1270 AS-R**, **MASTERTOP 1271 AS**, **MASTERTOP 1328 AS**, **MASTERTOP 1278 AS**, **MASTERTOP 1279 AS**, **MASTERTOP 1279 AS-R**.



The Chemical Company

MASTERTOP® CP 687 W-AS

CLEANING

Re-usable tools must be cleaned carefully with **Cleaner 44** or with eg isopropanol.

PACKAGING

MASTERTOP CP 687 W-AS is supplied in 15kg working kits.

STORAGE

Store in original containers under dry conditions at a temperature between 15-25 °C. Do not expose to direct sunlight and prevent the temperature from falling below the above mentioned range (freezing). Under these conditions the material has a shelf life of 12 months. For maximum shelf life under these conditions, see "best before" label.

PRECAUTIONS

In its cured state, **MASTERTOP CP 687 W-AS** is physiologically non-hazardous. The following protective measures should be taken when working with the material:

Wear safety gloves, goggles and protective clothing. Avoid contact with the skin and eyes. In case of eye contact, seek medical attention. Avoid inhalation of the fumes. When working with the product do not eat, smoke or work near a naked flame. For additional references to safety-hazard warnings, regulations regarding transport and waste management please refer to the relevant Material Safety Data Sheet. The regulations of the local trade association and/or other authorities, regulating safety and hygiene of workers handling epoxy resins must be followed.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS)** of the individual products from our office or our website.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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