

MasterCoat™ PRI 687 W AS

Epoxy Based, Two Component, Conductive Primer

Material Description

MasterCoat™ PRI 687 W AS is a low odour, black, water-based conductive epoxy floor primer.

MasterCoat™ PRI 687 W AS is designed for use in the various MasterCoat™ AS flooring systems where any static charge generated by walking on the surface is safely grounded, eliminating both damage to sensitive components and / or explosion risk

Areas of Application

This includes environments where electrostatic discharge can damage sensitive equipment or components such as electronics manufacturing facilities, cleanrooms and laboratories, data centres and server rooms, aerospace and defense industries, pharmaceutical and medical device manufacturing as well as automotive electronics assembly areas

Processing Method

(A) Surface

Substrate Requirements

All substrates should be capable of bearing loads, free of cracks and voids as well as free from water ponding as well as laitance, dust and other contamination including dirt, oil, grease, coatings, and surface treatments.

The substrate should be sound with a minimum compressive strength of 25 N/mm² and a minimum tensile strength (pull-off) of 1.5 N/mm². **MasterCoat™ PRI 687 W AS** should be applied to the relevant primer or scratch coat as stated in the specification

Substrate Preparation

MasterCoat™ PRI 687 W AS must be applied onto a preprimed substrate.

For the connection to earth points, use self-adhesive copper tape (min 50.0 cm apart). One earthing point is required for each 100m² area is recommended and a minimum of two earthing points per room.

(B) Mixing

The contents of the **MasterCoat™ PRI 687 W AS** (Part B) should be drained into the **MasterCoat™ PRI 687 W AS** Primer (Part A) component and the two materials thoroughly mixed at a speed of 500 rpm for three minutes.

(C) Processing

Spread the mixed MasterCoat™ PRI 687 W AS across the substrate with a squeegee and back-roll with a short-pile roller.

Overcoating

Overcoating should be carried out within 24 hours of application. If longer than 24 hours it will be necessary to lightly grind the surface by mechanical means before overcoating is carried out.

Consumption

The recommended coverage of **MasterCoat™ PRI 687 W AS** is 0.10 – 0.12 kg/m² per coat.

Technical Properties

Structure of the Material MasterCoat™ PRI 687 W AS Part A MasterCoat™ PRI 687 W AS Part B	Epoxy Resin Epoxy Hardener
Density (25°C)	1,30 kg/m ³
Pot Life (25°C)	15-25 min. (usable working life of material following mixing and immediate spreading as per the application instructions).
Overcoating Time (25°C)	24 hours

*The features listed above are for informational purposes only and should not be used as a basis for technical specifications.

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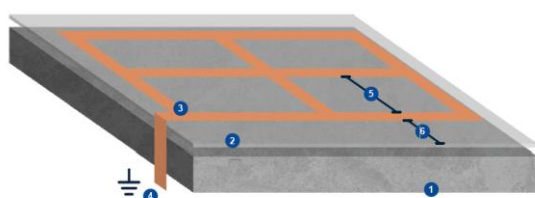
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Earthing Points Layout

Apply min. 12.7 mm wide copper tape around the perimeter of the area, 1.0 m from the walls. Apply a 3-metre grid of copper tape within the perimeter tape, as shown on the diagram below. Connect the copper tape grid to earth.

Note: connecting to earth must be carried out by a qualified electrician



- 1 Prepared substrate
- 2 Primer
- 3 Copper tape
- 4 Earth (see table)
- 5 3.0 m centres
- 6 1.0 m to edge

Floor Area	Earth Points
> 400 m ²	2
> 600 m ²	3
> 800 m ²	4
> 1000 m ²	5

Packaging

MasterCoat™ PRI 687 W AS	Part A	Part B
Mixing Ratio	4.25 kg	0.75 kg

Shelf Life

12 months after the production date under appropriate storing conditions. Opened packages should be stored under appropriate storage conditions and used within one week.

Storage

Store in original drums under dry conditions and a temperature between 10-30°C. Do not expose to direct sun-light and prevent the temperature from falling below the above mentioned range.

Further Information

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of resin-based coating materials must be observed. Suitable protective clothing including suitable eye protection must be worn at all times.

All consumptions listed are for recommendation purposes only. Detailed application instructions and system build-up advice can be provided on request through our Technical Services team.

MasterCoat™ Polymers' systems and products are guaranteed against defective material and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

MasterCoat™ Polymers accepts no responsibility for liability claims based on the suggested practices and data values listed on product data sheets. Product data sheets are regularly updated and it is the user's responsibility to ensure they obtain the most recent version.

Health and Safety

It is dangerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

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Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact

MBT Teknik Yapı Kimyasalları San. ve Tic. A.Ş.
Eyüp Sultan Mah. Sekmen Cad. Hayy 1000A
No:26/8 Sancaktepe, İstanbul
Tel: 0216 561 35 45 www.mbt-tech.tr

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