

MasterTop[®] P 687WAS

A water based 2-component EP conductive primer

DESCRIPTION

MasterTop P 687WAS is a conductive, water-based, non-solvented, low viscosity, black pigmented 2-component conductive primer based on a liquid epoxy resin.

TYPICAL APPLICATIONS

MasterTop P 687WAS 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**, **1270 AS-R**, **1278 AS**, **1278 AS-R**, **1324 AS** and **1324 ESD** for flooring applications where anti-static properties are required.

ADVANTAGES

- A low viscosity
- Easy to apply
- Anti-static properties
- Always top-coated with an anti-static floor coating system (MasterTop BC 370AS, BC 375NAS, BC 378AS)

PACKAGING AND COLORS

MasterTop P 687WAS is supplied in 15kg working packs and available in Black.

APPLICATION GUIDELINES

MasterTop P 687WAS is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, pre-condition both Part A and Part B components to a temperature of approximately 15 to 25°C.

Pour the entire contents of Part A into the container of Part B. **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 P 687WAS** 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 P 687WAS** 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 P 687WAS 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 approx. 24h (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 PRE-TREATMENT

MasterTop P 687WAS must be applied to primed substrates. 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. Pre-treatment 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 1.5N/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 3K above the current dew point

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temperature. A damp proof course must have been properly installed and intact.

CONSUMPTION

0.08-0.10kg/m²

Please refer to System data sheets **MasterTop 1270 AS**, **MasterTop 1270 AS-R**, **MasterTop 1278 AS**, **MasterTop 1278-R**, **MasterTop 1324 AS** and **MasterTop 1324 ESD**.

CLEANING

Re-usable tools must be cleaned carefully with a suitable thinner (Xylene / MEK / Acetone) or with e.g. isopropanol.

STORAGE AND SHELF LIFE

Store in original containers under dry conditions at a temperature between 15-25°C. Do not expose to direct sun-light 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.

TYPICAL PROPERTIES*

Mix ratio			by weight	2 : 3
Density	Part A	at 23°C	g/cm ³	1.09
	Part B	at 23°C	g/cm ³	1.06
	mixed	at 23°C	g/cm ³	1.07
Solid content		by volume	%	35
Pot life		at 20°C / 60% r.h.	min	60
Re-coating interval / ready for traffic		at 10°C	h	min. 18 max. 48
		at 20°C	h	min 12 max. 36
		at 30°C	h	min. 8 max. 24
Full cured		at 20°C	d	5
Substrate and application temperatures			°C	min. 10 max. 30
Max. permissible relative humidity			%	75

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

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EU Regulation 2004/42

(Decopaint Guideline)

This product conforms to the EU directive 2004/42/EG (Deco-Paint directive) and contains less than the maximum allowable VOC Limit (Stage 2, 2010). According to the EU directive 2004/42, the maximum allowable VOC content for the Product Category IIA / j type wb is 140g/l (Limit: Stage 2, 2010). The VOC content for **MasterTop P 687WAS** is < 140g/l (for the ready to use product).

WARNING AND PRECAUTIONS


In its cured state, **MasterTop P 687WAS** 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.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

CE-marking according to EN 13813

	
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Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
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168701	
EN 13813: 2002	
Synthetic resin screed for use internally in buildings EN 13813: SR-B1,5-AR1-IR4	
Essential characteristics	Performance
Fire behaviour*	Cfl-s1
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	<AR 1
Bond strength	>B 1,5
Impact resistance	>IR 4
Impact sound insulation	NPD
Sound absorption	NPD
Heat insulation	NPD
Chemical resistance	NPD
Slip/Skid resistance	NPD
Emissions behaviour	NPD

NPD = No performance determined

Performance determined in System Build-up **MasterTop 1270 AS**

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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 Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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