MasterTop® P 687 W AS

A water based 2- component EP conductive primer

PRODUCT DESCRIPTION

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

FIELDS OF APPLICATION

MasterTop® P 687 W AS is used indoors as a conductive layer on primed mineral substrates such as concrete and cement screeds.
It is use in the systems **MasterTop® 1273 AS, 1273 AS-R, 1278 AS, 1278 AS-R, 1324 AS and 1324 ESD** for flooring applications where anti-static properties are required.

FEATURES AND BENEFITS

- Alow viscosity
- Easy to apply
- Anti-static properties
- Always top-coated with an anti-static floor coating system (**MasterTop® BC 372AS, BC 375NAS, BC 378AS**)

APPLICATION METHOD

MasterTop® P 687 W AS is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, pre- condition both A and 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 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 squee- gee and finished with a paint-roller. **MasterTop® P 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® P 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 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 687 W AS 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 1.5 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 3K above the current dew point temperature. A damp proof cause must have been properly installed and intact.

CONSUMPTION

80 - 100 g/m²
Please refer to System data sheets **MasterTop® 1273 AS, MasterTop® 1273 AS-R, MasterTop® 1278 AS, MasterTop® 1278-R, MasterTop® 1324 AS and MasterTop® 1324 ESD**.

CLEANING AGENT

Re-usable tools must be cleaned carefully with **MasterTop® CLN 44** or with e.g. isopropanol.

PACKAGING

MasterTop® P 687 W AS is supplied in 15-kg working packs.

COLOUR

Black

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.

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*Technical data**				
Mix ratio			by weight	2:3
Density	Part A Part B mixed	at 23°C at 23°C at 23°C	g/cm^3 g/cm^3 g/cm^3	1,62 1,02 1,44
Solid content		by volume	%	35
Pot-life (15 kg drum)		at 20°C / 60% r.h.	min	30
Re-coating interval / ready for traffic		at 10°C at 20°C at 30°C	H H H H H H	Min. 18 Max. 48 Min. 12 Max. 36 Min. 8 Max. 24
Fully cured		at 20°C	d	5
Substrate and application temperatures			^{0}C ^{0}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.

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 140 g/l (Limit: Stage 2, 2010). The VOC content for **MasterTop® P 687 W AS** is < 140 g/l (for the ready to use product).

WARNING AND PRECAUTIONS

In its cured state, **MasterTop® P 687 WAS** 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 as-sociation and/or other authorities, regulating safety and hygiene of workers handling epoxy resins must be fol-lowed.

DISCLAIMER

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our pre- sent knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with **Master Builders Solutions** and possible resulting damages are in the sole responsibility of the customer.
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CONTACT INFORMATION

Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.
Adres: Barbaros Mah. Begonya Sok.
Nidakule Kuzey Ataşehir, C Kapısı
No:3 E/5, 34746 Ataşehir İstanbul / Türkiye
Tel: 0216 217 88 00
Mail: mbs.tr@mbcc-group.com
Web: www.master-builders-solutions.com/tr-tr

MasterTop® P 687 WAS Technical Data Sheet -Revision Date: 12/2020

Mitglied der DGNB Deutsche Gesellschaft für Nachhaltiges Bauen e.V. German Sustainable Building Council

CE MARKING ACCORDING TO EN 13813

CE

Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg

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168705

EN 13813: 2002

EN 13813: SR – B1,5 – AR1 – IR4

Synthetic resin screed for internal uses

Essential characteristics	Performance
Fire behavior	Cfl-s1
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	< AR 1
Bond strength	> B 1,5
Impact resistance	> IR4
Impact sound insulation	NPD
Sound absorption	NPD
Heat insulation	NPD
Chemical resistance	NPD

NPD = No performance determined Performance determined in System Build-up **MasterTop 1324 AS**