

MasterTop P 615

A non-solvented (total solid), sand broadcast free, low emission, 2K primer based on epoxy resin under EP- and PUR flooring or for oil contaminated substrates

MATERIAL DESCRIPTION

MasterTop P 615 is a non-solvented (total solid), low viscosity, low emission, two component, epoxy resin based primer for use under EP and PUR flooring systems. This primer does not normally need to be broadcast with sand for adhesion to the following coat.

AREAS OF APPLICATION

MasterTop P 615 is designed for use as a primer on mineral substrates such as concrete and cementitious screed with MasterTop PUR floor coating systems and with CONIPUR waterproofing membranes applied manually. In on-grade applications, a damp proof membrane must be installed and known to be effective. Moreover MasterTop P 615 can be applied on pre-cleaned oil contaminated and wet matt substrates. Please keep in touch with our technical service for this kind of application.

FEATURES AND BENEFITS

- broadcast sand not normally required
- low emission (conform to AgBB)
- low viscosity
- easy to apply
- excellent penetration
- seals pores and capillaries
- excellent bond to substrate
- high moisture tolerance

APPLICATION METHOD

MasterTop P 615 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. MasterTop P 615 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 P 615 is applied to the prepared substrate by spreading with a squeegee and finishing with a roller. If the re-coating intervals can be observed, it is not necessary to broadcast sand into the still wet primer in order to improve adhesion of the following body coat. If the re-coating interval cannot be expected to be observed, then oven dried silica sand (0.3 – 0.8 mm) should be broadcast into the still wet primer at approx. 1.0 kg/m².

The curing time of the material is influenced by the ambi-

ent, 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. 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. 24 h (at 20° C). Within this period, contact with water can cause a surface bloom (formation of carbamates) and/or surface tackiness, both of which must be removed.

SUBSTRATE PRE-TREATMENT

All substrates (new and old) must be structurally sound, dry and free of laitance and loose particles. Clean floors of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants. Mechanical surface profiling by grit or shot blasting, high-pressure water jetting, grinding or scabbling (including the necessary post-treatment) are the preferred floor preparation methods.

After surface preparation the tensile strength of the substrate should exceed 1.5 N/mm² (check with an approved pull-off tester 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 dew point temperature. A damp-proof course must have been properly installed and be intact. (please refer to the instructions of installation for oil contaminated substrates)

CONSUMPTION

The consumption of MasterTop P 615 is between 0.3 – 0.5 kg/m² depending on the condition and porosity of the substrate. A second coat of 0.2 – 0.4 kg/m² of MasterTop P 615 is recommended for very porous substrates and improves the protection against rising damp.

The above consumption figures are intended as a guide only and may be higher on very rough or porous substrates.

CLEANING AGENT

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

PACKAGING

MasterTop P 615 is supplied in 16,9 kg working packs and in 200 kg drums of Part A and Part B.

COLOUR

Brownish - transparent liquid

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STORAGE

Store in original containers, under dry conditions and a temperature between 15–25 °C. Do not expose to direct sun-light. For maximum shelf life under these conditions, see "Best before...." label.

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 sb is 500 g/l (Limit: Stage 2, 2010). The VOC content for MasterTop P 615 is < 500 g/l (for the ready to use product).

WARNING AND PRECAUTIONS


In its cured state, MasterTop P 615 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.

Mitglied der



CE MARKING ACCORDING TO EN 13813

| | |
|---|-------------|
|  | |
| Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg | |
| 05 | |
| 161501 | |
| EN 13813: 2002 | |
| EN 13813: SR-B1,5-AR1-IR4 | |
| Synthetic resin screed for internal uses | |
| Essential characteristics | Performance |
| Fire behavior | Bfl-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 |

NPD = No performance determined

Performance determined in System **MasterTop 1324**

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| Product data* | | | | |
|---|--------|---------------|-------------------|----------|
| Property | | | Unit | Data |
| Mix ratio | | | by weight | 100 : 55 |
| Density | Part A | at 20°C | g/cm ³ | 1,13 |
| | Part B | at 20°C | g/cm ³ | 1,00 |
| | mixed | at 20°C | g/cm ³ | 1,08 |
| Viscosity | Part A | at 20°C | mPa.s | 600 |
| | Part B | at 20°C | mPa.s | 2180 |
| | mixed | at 20°C | mPa.s | 800 |
| Pot life (30 kg unit) | | at 12°C | min | 90 |
| | | at 23°C | min | 45 |
| | | at 30°C | min | 25 |
| Re-coating interval / ready for traffic | | at 10°C | h | min. 24 |
| | | | d | max. 3 |
| | | at 23°C | h | min. 9 |
| | | | d | max. 2 |
| | | at 30°C | h | min. 4 |
| | | | d | max. 1 |
| Permissible ambient and substrate temperature | | | °C | min. 8 |
| | | | °C | max. 30 |
| Permissible relative humidity max. | | at 10°C | % | 75 |
| | | at > 23°C | % | 85 |
| Product data cured material* | | | | |
| Shore D hardness | | after 7 days | | 79 |
| Glass transition temperature | | after 28 days | °C | 51 |
| Compressive strength | | after 28 days | N/mm ² | 72 |
| Tensile strength | | after 7 days | N/mm ² | 28 |
| Taber abrasion: CS10 wheels, 10 N, 1000 revolutions | | after 7 days | mg | 50 |

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

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SUSTAINABILITY

In our approach to develop and produce sustainable products and solutions to our customer, we are glad to inform you that MasterTop P 615 is not only registered in the DGNB (German Sustainable Building Council) Navigator platform but also exhibits a DGNB Navigator label.

The DGNB Navigator Label allows us to demonstrate our commitment to sustainability and gives you all the transparency and required information about our flooring products to build sustainable projects.

For further information, please do not hesitate to contact us and/or to visit the following DGNB websites:

<http://www.dgnb.de/en/>

www.dgnb-navigator.de/Navigation/Home?language=en



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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 present 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 helpline 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. All descriptions, drawings, photographs, data, ratios, weights i.e. stated herein can be changed without advance notice and do not represent the condition of the product as stipulated by contract. It is the sole responsibility of the recipient of our products to observe possible proprietary rights as well as existing laws and provisions. The reference of trade names of other companies is no recommendation and does not exclude the use of products of similar type. Our information only describes the quality of our products and services and is no warranty. Liability is accepted for incomplete or incorrect particulars in our data sheets only in the event of intent or gross negligence, without prejudice to claims under product liability laws.

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