MasterTop® P 615

A solvent free (total solid), sand broadcast free, low emission, two component primer based on epoxy resin under EP- and PUR flooring or for oil contaminated substrates.

PRODUCT DESCRIPTION

MasterTop P 615 is a solvent free (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.

FIELDS OF APPLICATION

MasterTop P 615 is designed for use as a primer on mineral substrates such as concrete and cementitious screed with **MasterTop** floor coating systems and with **MasterSeal** 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 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. 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

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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 THN 2** 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

STORAGE

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

TECHNICAL DATA*

Mix ratio			by weight	100 : 55
Density	Part A	at 20°C	g/cm³	1.13
	Part B	at 20°C	g/cm³	1.00
	mixed	at 20°C	g/cm³	1.08
Viscosity	Part A	at 20°C	mPas	600
	Part B	at 20°C	mPas	2180
	mixed	at 20°C	mPas	800
Pot life (30kg 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 max. 72
		at 23°C	h	min 9 max. 48
		at 30°C	h	min. 4 max. 24
Permissible ambient and substrate temperature			°C	min. 8 max. 30
Permissible relative humidity		at 10°C	%	75
		at >23°C	%	85

Technical data cured material

Shore D hardness	after 7 days		79
Glass transition temperature	after 28 days	°C	51
Compressive strength	after 28 days	N/mm²	72
Tensile strength	after 7 days	N/mm²	28
Taber abrasion: CS10 wheels, 10N, 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.

We create chemistry

MasterTop® P 615

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.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries.

CE-marking according to EN 13813

CE

1508

BASF Construction Chemicals Europe AG
Industriestrasse 26, CH-8207 Schaffhausen

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Synthetic resin screed for use internally in buildings
EN 13813: SR-B1,5-AR1-IR4

Essential characteristics	Performance
Fire behaviour*	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
Slip/Skid resistance	R9, R10
Emissions behaviour	Ü-Z: Z-156.605-685

NPD = No performance determined
Performance determined in System MasterTop 1324

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Saudi BASF for Building Materials Co. Ltd.
P.O. Box 1884, Al Khobar, KSA
Tel: +966 13 8538600, Fax: +966 13 8328671
www.master-builders-solutions.sa