MasterTop® P 617

A general purpose, solvent free, two component epoxy resin based primer, suitable to surfaces directly in contact with the ground.

DESCRIPTION

MasterTop P 617 is a solvent free (total solid), low viscosity, two component epoxy resin based primer.

TYPICAL APPLICATIONS

MasterTop P 617 is designed for use indoor and outdoor as a primer on mineral substrates such as concrete and cementitious screed. You can use it as scratch primer by adding oven dried silica sand in a proportion of 1:0.5 till 1:2. **MasterTop P 617** fulfills the requirements of the relevant directive about the effect of rising humidity. **MasterTop P 617** has been tested and classified as low emission in Systems like **MasterTop 1325**.

ADVANTAGES

- low viscosity
- easy to apply
- excellent penetration
- seals pores and capillaries
- excellent bond to substrate
- low emission

PACKAGING AND COLORS

MasterTop P 617 is supplied in 18 kg working packs and 200 kg drums of PTA and in 180 kg drums of PTB and available in Transparent liquid.

TYPICAL PROPERTIES*

Mixing ratio	by weight		100 : 43
Mixed density	at 20°C	g/cm³	1.07
Mixed viscosity	at 20°C	mPa.s	490
Working time	at 12°C	min.	60
	at 23°C	min.	30
	at 30°C	min.	15
Ready for traffic	at 10°C	h	min. 24 max. 48
	at 23°C	h	min. 7 max. 36
	at 30°C	h	min. 3 max. 24
Fully cured	at 10°C	d	5
	at 23°C	d	3
	at 30°C	d	2
Permissible ambient and substrate temperature		°C	min. 8 max. 30
Permissible relative humidity	at 10°C at >23°C	% %	75 85

Technical data cured material

Shore D hardness	after 7 days		80
Compressive strength	after 28 days	N/mm²	81
Tensile strength	after 7 days	N/mm²	28

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

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APPLICATION GUIDELINES

MasterTop P 617 is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both PTA and PTB to a temperature of approximately 15 to 25°C. Pour the entire contents of PTB into the container of PTA. 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 PTA and PTB into a fresh container and mix for another minute. **MasterTop P 617** 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 617** is applied to the prepared substrate by spreading with a squeegee and finishing with a roller. Oven dried sand is broadcast into the still wet primer in order to improve adhesion of the following coat. 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. 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. The temperature of the substrate must be at least 3 K above the dew point both during the application and for at least 24 hours after the application (at 15°C).

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 100N/s). The residual moisture content of the substrate must not exceed 4% (check with e.g. CM device).

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

CLEANING

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

CONSUMPTION

The consumption of **MasterTop P 617** is between 0.15–0.3 kg/m² depending on the condition and porosity of the substrate.
Oven dried silica sand 0.3–0.8 mm should be broadcast at approximately 1.0 kg/m² not in excess into the still wet primer.
The above consumption figures are intended as a guide only and may be higher on very rough or porous substrates.

STORAGE AND SHELF LIFE

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.

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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 is 500g/l (Limit: Stage 2, 2010). The VOC content for **MasterTop P 617** is <500g/l (for the ready to use product).

WARNING AND PRECAUTIONS

In its cured state, **MasterTop P 617** 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.

CE-marking

CE

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For use in buildings (system build-ups according to the respective technical data sheets)

Product properties	EN 13813
	SR-B1,5-AR1-IR4-E_{fl}
	Synthetic resin screed/coating
Fire behaviour*	E_{fl}
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance BCA-method**	AR 1
Adhesive tensile strength	B 1,5
Impact resistance	IR 4
Subsonic noise insulation	NPD
Acoustical absorption	NPD
Heat insulation	NPD
Chemical resistance	NPD

* Please refer to the fire behaviour of the system according to EN 13501-1
NPD = No performance determined

* Properties listed are based on laboratory controlled tests.

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

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