

MASTERTOP[®] P 617

A general purpose, solvent free, two component epoxy resin based primer

Description

MASTERTOP P 617 is a solvent free, low viscosity, two component epoxy resin based primer.

Fields of application

MASTERTOP P 617 is designed for use as a primer on mineral substrates such as concrete and cementitious screed with MASTERTOP floor coating systems. In on-grade applications, a damp proof membrane must be installed and known to be effective.

Features and benefits

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

Packaging

MASTERTOP P 617 is supplied in 25 kg working packs of Part A and Part B.

Appearance

Transparent liquid.

Technical data

Mixing ratio	by weight		100 : 43
Mixed density	at 20°C	g/cm ³	1.07
Mixed viscosity	at 20°C	mPas	490
Working time (30kg unit)	at 12°C	min.	60
	at 23°C	min.	30
	at 30°C	min.	15
Ready for traffic	at 10°C	h	min. 24
		h	max. 48
	at 23°C	h	min. 7
		h	max. 36
	at 30°C	h	min. 3
		h	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	%	75
	at >23°C	%	85

Technical data cured material

Shore D hardness	after 7 days		84
Glass transition temperature	after 28 days	°C	under test
Compressive strength	after 28 days	N/mm ²	81
Tensile strength	after 7 days	N/mm ²	28
Thermal expansion coefficient		x 10 ⁻⁶ K ⁻¹	under test
Taber abrasion: CS10 wheels, 10N, 1000 revolutions	after 7 days	mg	under test



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

Application method

MASTERTOP P 617 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 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. 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 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 scavelling (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). A damp proof course must have been properly installed and be intact.

Consumption

The consumption of MASTERTOP P 617 is between 0.15–0.3kg/m² depending on the condition and porosity of the substrate. Porous substrates may require an additional coat of MASTERTOP P617.

Cleaning agent

Re-usable tools must be cleaned carefully with CLEANING SOLVENT NO. 2



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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 is 500 g/l (Limit: Stage 2, 2010). The VOC content for MASTERTOP P 617 is < 500 g/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.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.



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EN 13813 SR-B1,5-E _{fl}
Synthetic resin screed/coating for use in buildings (system build-ups according to the respective technical data sheets)
Fire behaviour: B _{fl} Release of corrosive substances: SR Water permeability: NPD Water resistance: NPD Adhesive tensile strength: B1.5 Impact resistance: NPD Subsonic noise insulation: NPD Acoustical absorption: NPD Heat insulation: NPD Chemical resistance: NPD

NPD = No Performance Determined

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As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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