MasterTop® P 617

A general purpose, non-solvented, two component epoxy resin based primer, suita- ble also to surfaces in contact with the ground. (*)
* on condition that a damp proof membrane was properly installed.

PRODUCT DESCRIPTION
MasterTop® P 617 is a non-solvented (total solid), low viscosity, two component epoxy resin based primer.

FIELDS OF APPLICATION
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 and can be applied on surfaces in contact with the ground if a damp proof course has been properly installed and is intact. **MasterTop® P 617** has been tested and classified as low emission in Systems like **MasterTop® 1325**.

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

CERTIFIED SYSTEMS
- MasterSeal 2271
- MasterSeal 2265
- MasterSeal 2255
- MasterSeal 2263
- MasterSeal 2264, etc.

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 approx- imately 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. Oven dried sand is broadcast into the still wet primer in order to improve adhesion of the following coat. The curing time of the materi- al 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 chemi- cal 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 3K 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 ad- hesion impairing contaminants. Mechanical surface profil- ing by grit or shot blasting, high-pressure water jetting, grinding or scabbling (including the necessary posttreatment) are the preferred floor preparationmethods.
After surface preparation the tensile strength of the substrate should exceed 1.5 N/mm^2 (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 0.3 – 0.5 kg/m^2 depending on the condition and porosity of the substrate. A second coat of 0.2 – 0.4 kg/m^2 of **MasterTop® P 617** is recommended for very porous substrates and improves the protection against rising damp.
Oven dried silica sand 0.3 – 0.8 mm should be broadcast at approximately 1.0 kg/m^2 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.

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

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PACKAGING

MasterTop® P 617 is supplied in 18 kg working packs and in 200 kg drums of Part A and in 180 kg drums of Part B.

APPEARANCE

Transparent liquid

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 as-sociation and/or other authorities, regulating safety and hygiene of workers handling epoxy resins must be fol-lowed.

CONTACT INFORMATION

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MasterTop® P 617 Technical Data Sheet -Revision Date: 12/2020

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Technical data*				
Mix ratio			by weight.	100:43
Density	Part A Part B mixed	at 20°C at 20°C at 20°C	g/cm^3 g/cm^3 g/cm^3	1,12 1,03 1,07
Viscosity	Part A Part B mixed	at 20°C at 20°C at 20°C	mPa.s mPa.s mPa.s	600 380 490
Pot-life (25 kg unit)		at 12°C at 23°C at 30°C	Min Min Min	60 30 15
Re-coating intervals		at 12°C at 23°C at 30°C	H H H H H H	Min. 24 Max. 48 Min. 7 Max. 36 Min. 3 Max. 24
Fully cured		at 10°C at 23°C at 30°C	D D D	5 3 2
Permissible ambient and substrate temperature			^{0}C ^{0}C	Min. 8 Max. 30
Permissible relative humidity max.		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/mm^2	81
Tensile strength	after 7 days	N/mm^2	28

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

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DOP NO:04.1504.2.038	
EN 1504-2: 2004	
MasterTop P 617	
Beton Yapıların Korunması ve Tamiri İçin Mamuller ve Sistemler. **Bölüm:2 Beton için Yüzey Koruma Sistemleri** **(Products and systems for the protection and repair of concrete structures** **Part 2: Surface protection systems for concrete)** Solventsiz, İki Bileşenli, Epoksi Esaslı, Zemin ile Direkt Temas Eden Yüzeyler İçin Uygun Astar (Solvent free, two component epoxy resin based primer, suitable to sur- faces directly in contact with the ground.) Prensipler 1.2 Yabancı madde girişine karşı koruma, 5.2 Fiziksel direnç (Principles: 1.2 Protection against ingress, 5.2 Physical resistance)	
Kapiler su emme ve su geçirgenliği (Capillary absorption and permeability to water)	w<0,1 kg/m².√h
İşleme derinliği (Depth of penetration)	NPD
Çekip koparma deneyi yoluyla yapışma dayanımı (Adhesion strength by pull-off test)	Trafik yüküyle:>1,5 N/mm²(1,0 min) (With trafficking:>1,5 N/mm²(1,0 min))
Aşınma direnci (Abrasion Resistance)	Emprenye uygulanmış nu- munenin aşınma direnci, em- prenye uygulanmamış numuneden en az % 30 daha yüksek olmalıdır. (Impregnated concrete abrasion resistance must high at least 30 % than unimpregnated concrete)
Çarpmaya direnç (Impact resistance)	NPD
Yangına karşı tepki (Reaction to fire)	E
Tehlikeli maddeler (Dangerous substances)	Madde 5.3'e uygun (Comply with clause 5.3)