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MasterTop® P 677

Solvent Free, Two Component, Epoxy Based Primer

PRODUCT DESCRIPTION

MasterTop® P 677, is an epoxy based, two components, low viscosity primer and penetration material for use on mineral substrates such as concrete and cement.

MasterTop® P 677, A has been tested to, and meets the requirements of the German bridge deck isolation specification TL/TP BEL-EP of the ZTV-BEL-B 87.

FIELDS OF APPLICATION

- With the addition of the appropriate amount of silica sand, it can be used as a repair mortar.
- Used as a surface smoothing mortar on surfaces where bitumen membrane is to be applied. (According to German bridge deck isolation standards TL/TP BEL-EP ZTV-BEL-B87.)
- Under MasterTop® epoxy/ polyurethane floor coatings.
- As a primer under MasterSeal® polyurethane isolation systems.

FEATURES AND BENEFITS

- Easy to apply.
- Tolerant to damp that raises from the floor.
- Penetrates to capillary holes within concrete structure hence blocks the holes.
- Provides excellent penetration and adherence on cement based surfaces.
- ***MasterTop® P 677*** does not lose its performance under sudden temperature changes between -20 - +50ºC. It has also been tested under +250ºC and above for short periods of time.
- It has been tested according to the German Bridge isolation system standards.
- It does not contain any solvents.

APPLICATION METHOD

Preparation of Substrate

The concrete substrates on which the product is going to be applied should be C25 or dosage of 350 minimum and the concrete should be 3 weeks old at least. After the preparation of the surface, the tensile strength of the substrate should exceed 1.5 N/mm2 (tested with an approved pull-off tester at a load rate of 100 N/s). The residual moisture content of the substrate should not exceed 4 % (tested with e.g. CM device). A damp proof course should be installed properly and be inact. The substrate temperature should remain +8ºC minimum and the temperature of the substrate should at least be 3 K above the current dew point. All substrates should be structurally sound, dry and clean. Oil, grease and other adhesion impairing contaminants should be removed Bubble formation on the surfaces which absorbed oil should be removed with the usage of a blastrack or rotatiger. Oil contaminated substrates should first be precleaned with an emulsifying cleaning detergent according to the supplier's instructions. Finally, the concrete or cement screed surface should be cleaned by using a high pressured water jet and excess water should be removed by a wet/dry vacuum cleaner. If **MasterTop® P 677**is to be coated on a soil based substrates a layer against rising damp should be installed according to DIN 18195 (or equivalent) standards. The windows, the doors and the roof should be already installed and closed. **MasterTop® P 677** can be applied when the residual moisture content of the substrate exceeds 4%. Please refer to Technical Help for detailed information.

Mixing

MasterTop® P 677 is supplied as ready to use kits in the exact ratio. Before mixing, precondition both A and B parts to the temperature of +15 - +25ºC. Pour the entire contents of part B into the container of part A; make sure that there is no product left in the part B package. Scrape well the sides and the bottom of the container to ensure a thorough mixing. After mixing **MasterTop® P 677** parts for 3-4 minutes, pour the mix into a fresh container, set it aside for a while and mix for another minute. When **MasterTop® P 677** mixture is ready, oven dried silica can be added with a ratio of 1/0.5-1/2 if the surface is too porous. When 1/1 or 1/5 oven dried silica added, **MasterTop® P 677** can be used as a repair mortar.

CONSUMPTION

The consumption of **MasterTop® P 677** is between 0.3 – 0.5 kg/m^2 depending on the condition and porosity of the substrate.

WATCH POIONTS

- Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +10 or above +30ºC.
- The materials to be used at the appropriate temperatures should be brought and stored in the application area 1-2 days prior to the application and enabled to adjust the ambientconditions.
- In extremely cold conditions, heaters should be used to increase the ambient and the workability of the product, the packages should be preconditioned to +20 - +25ºC to become ready to use.
- Epoxy and polyurethane based floor coatings should be applied by specialists.
- The reaction and workability times of resin based systems depend on the ambient and substrate temperatures as well as the relative humidity. Under lower temperatures, the chemical reaction times are prolonged and this increases the pot life, coating

MASTER® BUILDERS SOLUTIONS

MasterTop® P 677

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interval and the working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and the above mentioned times decrease accordingly. For the material to be cured properly, the ambient and the substrate temperatures should not fall below the specified limits. After the application, the material should be protected from direct contact with water for 24 hours minimum. Within this period, a contact with water may cause a surface carbonation and/or tackiness; both of which will cause the coating to löse its characteristics. In such cases, the overall coating should be removed from the floor and renewed.

- Permissible relative humidity %75-%90.
- ***MasterTop® P 677*** is supplied in working packs which are pre-packaged in the exact ratio. No solvent should be added.
- Mixing should be done with a mechanical drill at 300 - 400 rpm with epoxy/polyurethane mixing paddles.
- DO NOT MIX BY HAND.
- After the first mix, contents should be poured into a clean container and mixed once again.
- The empty packs should be consolidated and disposed properly in order to prevent reusing of the packages.

CLEANING

Used tools and equipment must be cleaned carefully with an appropriate solvent: Once fully cured ***MasterTop® P 677*** can only be removed by mechanical means.

PACKAGING

MasterTop® P 677, is supplied in 15 kg working packs

MasterTop® P 677	Part A	Part B
Mixing Ratio	10,35 Kg	4,65 Kg

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.

WARNING AND PRECAUTIONS

In its cured state, **MasterTop® P 609** 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.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge ***BASF Türk Kimya Sanayi ve Tic. Ltd. Şti***. is only responsible for the quality of the product. ***BASF Türk Kimya Sanayi ve Tic. Ltd. Şti***. is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones (01/2015).

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DOP NO: 02.1504.2.023 **EN 1504-2 :2004**
MasterTop P 677
EPOKSİ BAZLI SOLVENTSİZ ASTAR **1.2 Yabancı madde girişine karşı koruma** **5.2 Fiziksel direnç**

Ana Özellikleri	Performans
Kapiler Su Emme ve Su Geçirgenliği	w<0,1 kg /m².√h
Penetrasyon Derinliği	PDB
Çekip Koparma Deneyi Yoluyla Yapışma Dayanımı	≥ 2,0 N /mm²
Aşınma Direnci	Emprenye edilmemiş malzemeler ile kıyaslandığında aşınma direncinde %10 gelişme
Darbe Dayanımı	Yük altında çatlak ve delaminasyon yok Sınıf 1 : 4 NM
Yangına Tepki	E
Tehlikeli Maddeler	Madde 5.4 'e uygun

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*Technical data**				
Mix ratio			By weight	100 : 45
Density	Mixed	At 23ºC	g/cm³	1,09
Pot life		At 23ºC	23ºC de	20
Re-coating intervals		At 10ºC	hour	min. 24
			hour	maks. 48
		At 23ºC	hour	min. 7
			hour	maks. 36
		At 30ºC	hour	min. 3
			hour	maks. 24
Fully cured		At 23ºC	days	7
Permissible ambient and substrate temperature			ºC	min. 8
			ºC	maks. 30
Permissible relative humidity max.		At 10ºC	%	75
		At > 23ºC	%	85
*Technical data cured material**				
Shore D hardness		after 7 days		80
Compressive strength		after 28 days	N/mm²	50
Bonding strength		after 7 days	N/mm²	>2

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

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