

# MasterTop P 622

## A general purpose, non-solvented, two component epoxy resin based primer for use on cementitious screeds and concrete also with damp surface (acc. to EN 13578)

### PRODUCT DESCRIPTION

MasterTop P 622 is a non-solvented (total solid), low viscosity, two component epoxy resin based primer for concrete and cementitious screeds.

### FIELDS OF APPLICATION

MasterTop P 622 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 622 can be applied on damp concrete and high residual moisture content cementitious screeds according to EN 13578 (test report available). Therefore, MasterTop P 622 is also suitable on surfaces in contact with the ground if a damp-proof course has been properly installed and is intact.

### FEATURES AND BENEFITS

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

### APPLICATION METHOD

MasterTop P 622 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 622 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 622 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 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 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/mm<sup>2</sup> (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 622 is between 0.3 – 0.5 kg/m<sup>2</sup> depending on the condition and porosity of the substrate. A second coat of 0.2 – 0.4 kg/m<sup>2</sup> of MasterTop P 622 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<sup>2</sup> 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.



We create chemistry

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## PACKAGING

MasterTop P 622 is supplied in 17,2 kg working packs (11,8 kg for part A + 5,4 kg for part B) and in drums of 200 kg for Part A and of 184 kg for 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 sunlight. 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 622 is < 500 g/l (for the ready to use product).

## WARNING AND PRECAUTIONS

In its cured state, MasterTop P 622 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.

## CONTACT

Should you require any further information, please do not hesitate to contact your local sales consultant or take directly contact with us:

Performance Flooring

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Mitglied der



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Technical data*				
Mix ratio			by weight.	100 : 46
Density	Part A	at 20°C	g/cm <sup>3</sup>	1,15
	Part B	at 20°C	g/cm <sup>3</sup>	1,03
	mixed	at 20°C	g/cm <sup>3</sup>	1,07
Viscosity	Part A	at 20°C	mPa.s	900
	Part B	at 20°C	mPa.s	100
	mixed	at 20°C	mPa.s	590
Pot-life (17,2 kg unit)		at 12°C	min	60
		at 23°C	min	30
		at 30°C	min	15
Re-coating intervals		at 10°C	h	min. 24
			h	max. 48
		at 23°C	h	min. 7
			h	max. 36
Fully cured		at 10°C	h	min. 3
		at 23°C	h	max. 24
		at 30°C	h	
Permissible ambient and substrate temperature			°C	min. 8
			°C	max. 30
Permissible relative humidity max.		at 10°C	%	75
		at > 23°C	%	85
Technical data cured material*				
Shore D hardness		after 7 days		83
Compressive strength		after 28 days	N/mm <sup>2</sup>	81
Tensile strength		after 7 days	N/mm <sup>2</sup>	32

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

**CE MARKING ACCORDING TO EN 13813**

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BASF Coatings GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
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162210	
EN 13813: 2002	
EN 13813: SR-B1,5-AR1-IR4	
Synthetic resin screed for internal uses	
Essential characteristics	Performance
Fire behavior	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

NPD = No performance determined

Performance determined in System **MasterTop 1324**

**Disclaimer:**

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general

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application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with BASF and possible resulting damages are in the sole responsibility of the customer.

All descriptions, drawings, photographs, data, ratios, weights i.e. stated herein can be changed without advance notice and do not represent the condition of the product as stipulated by contract. It is the sole responsibility of the recipient of our products to observe possible proprietary rights as well as existing laws and provisions. The reference of trade names of other companies is no recommendation and does not exclude the use of products of similar type. Our information only describes the quality of our products and services and is no warranty. Liability is accepted for incomplete or incorrect particulars in our data sheets only in the event of intent or gross negligence, without prejudice to claims under product liability laws.