

MasterTop P 622

Moisture tolerant non-solvent epoxy resin based primer

DESCRIPTION

MasterTop P 622 is a non-solvent, low viscosity, two component epoxy resin based primer.

FIELD OF APPLICATION

MasterTop P 622 is designed for use as a primer on mineral substrates such as concrete and cementitious screeds prior to the application of MasterTop flooring systems and MasterSeal waterproofing membranes. In particular it can be used on concrete substrates with a high residual moisture content.

Please refer to individual system data sheets.

A functioning damp proof membrane must be installed under on-grade concrete and known to be effective.

FEATURES AND BENEFITS

- low viscosity
- easy to apply
- excellent penetration
- seals pores and capillaries
- excellent bond to substrate
- can be applied to early age concrete

SUBSTRATE PREPARATION

All substrates must be structurally sound, clean and dry and free from oil, grease and loose material and any other contamination which might impair adhesion.

Mechanical preparation such as captive shot blasting, scarification, and diamond grinding for edge work should be used to produce a substrate surface profile suitable for the application of a resin finish.

The tensile strength of the substrate should exceed 1.5MPa.

New concrete should be designed such that the residual moisture content would be less than 4% by weight once cement hydration is complete. For example, a concrete with 350kg cement per cubic metre should have a maximum water to cement ratio of 0.5.

If an old concrete is found to have a high moisture content the cause should be investigated and remedied. (eg. a damaged or missing DPM, leaking drains or pipes, etc.)

The substrate concrete should be at least 7 days old and the surface of the concrete should look dry prior to the application of MasterTop P 622.

MasterTop P 622 should be applied when substrate temperatures are constant or falling to minimise the risk of bubble and void formation due to expansion of air within the substrate when temperatures are rising. This is particularly important to note on external applications.

The curing reactions are influenced by the ambient, material and substrate temperatures. Low temperatures lengthen the pot life, open- and curing times. High temperatures shorten pot life, open- and curing times.

The temperatures should not fall below the minimum stated until the material is fully cured. The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least a further 24 hours (at 15°C).

APPLICATION

MasterTop P 622 is supplied in working units. Before mixing, precondition both A and B components to a temperature of approximately 15 to 20°C.

Pour the entire contents of part B into the container of part A. Mix with a low speed (ca.300 rpm) electric drill and paddle for at least 3 minutes until homogeneous. Scrape the sides and the bottom of the container several times during mixing to ensure complete mixing. Keep the mixing head submerged to avoid entrapping air.

Do not work out of the original container. Decant the mixed material into a fresh container and remix for another minute.

If required, MasterTop P622 can be extended with MasterTop F1 to produce a scratchcoat slurry for uneven substrates, this should be added to the fully mixed materials under continuous mixing until uniformly distributed. Scratchcoats are applied by trowel.

MasterTop P 622 is applied by squeegee and finished by roller. Ensure that the primer layer is complete to fully seal the substrate concrete.

Broadcast MasterTop F5 into the still wet primer to provide a bond bridge for subsequent layers.

Protect the fresh primer from water and condensation which can cause a white bloom and tackiness which will be detrimental to subsequent layers.

For substrates with high residual moisture contents 2 coats are required.

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COVERAGE

MasterTop P622:

First coat, typically 0.3–0.5kg/m² depending upon surface texture and porosity of the substrate concrete

Second coat, typically 0.2–0.4kg/m²

MasterTop F5: Typically 1.0kg/m² per coat.
Refer to System Data Sheet.

FINISHING AND CLEANING

Tools must be cleaned immediately after use with xylene or other suitable solvent.

CURING

Full cure is reached in 5 days after the application at a constant temperature of 23°C.

WORKING TIME

20 minutes in 23°C ambient and substrate temperature.

PACKAGING

MasterTop P 622 is supplied in 17.2kg working packs.

STORAGE

Store in original containers under normal warehouse conditions: off the ground, dry and at a temperature between 15–25°C. Do not expose to direct sunlight.

SHELF LIFE

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).

HANDLING AND TRANSPORT

Usual preventive measures for the handling of chemical products should be observed when using this product, for example do not eat, smoke or drink while working and wash hands when taking a break or when the job is completed.

Specific safety information referring the handling and transport of this product can be found in the Material Safety Data Sheet. For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

Disposal of product and its container should be carried out according to the local legislation in force. Responsibility for this lies with the final owner of the product.

CONTACT DETAILS

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Technical data*				
Mix ratio			by weight.	100 : 46
Density	Part A	at 20°C	g/cm ³	1,12
	Part B	at 20°C	g/cm ³	1,03
	mixed	at 20°C	g/cm ³	1,07
Viscosity	Part A	at 20°C	mPa.s	600
	Part B	at 20°C	mPa.s	380
	mixed	at 20°C	mPa.s	490
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		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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CE MARKING ACCORDING TO EN 13813

	
Master Builders Solutions Donnerschweer Str. 372, D-26123 Oldenburg	
18	
162216	
EN 13813: 2002	
EN 13813: SR-B1,5-AR1-IR4	
Synthetic resin screed for internal uses	
Essential characteristics	Performance
Fire behavior	Efl
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 1325**

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MasterTop P 622 – Master Builders Solutions UK Ltd, Version 1

Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Solvent Based Products

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"Master Builders Solutions UK Ltd" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.