

MasterSeal[®] P 385

Epoxy-cement based primer and levelling coat for damp surfaces

DESCRIPTION

MasterSeal P 385 is non-solvented, three component, epoxy-cement coating, for priming and levelling absorbent and non-absorbent surfaces.

FIELDS OF APPLICATION

- For use as a primer on: concrete, cementitious mortars, absorbent and non-absorbent ceramic tiles, glass, synthetic and mineral coatings, etc.
- For use as a primer / levelling coat on damp surfaces underneath MasterSeal and / or MasterTop epoxy and polyurethane coatings and flooring materials.

Contact your local BASF Construction Chemicals office regarding any application required not mentioned here.

FEATURES AND BENEFITS

- Excellent adhesion on different substrates
- Can be used on damp surfaces
- High water vapour permeability
- Easy to apply by brush or trowel
- Watertight

PACKAGING

MasterSeal P 385 is available in 25 kg kits consisting of two 4.5 kg metal pails (Parts A + B) and one 16kg paper bag (Part C).

APPLICATION METHOD

(a) Surface Preparation

All substrates (new and old) must be structurally sound, dry, free of laitance and loose particles and clean of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants.

The surface should be prepared by shot blasting, high-pressure water jetting or other suitable mechanical method.

After surface preparation the tensile strength of the substrate should exceed 1.5 N/mm² (check with an approved pull-off tester).

The temperature of the substrate should be minimum +10°C and maximum +30°C.

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BASF Coatings GmbH Glasuritstraße 1 D-48165 Münster 14 DE0244/02	
MasterSeal P 385 (DE0244/02) EN 1504-2:2004	
Surface protection product/coating EN 1504-2 Principles 2.2/8.2	
Reaction to fire	Class Bfl-s1
Water vapour permeability	Class II
Capillary absorption and permeability to water	w < 0,1 kg/m ² h ^{0,5}
Adhesion strength by pull off test	≥ 1,0 N/mm ²
Adhesion on wet concrete	No visual defects
Dangerous substances	Comply with 5.3 (EN 1504-2)

Saturate absorbent substrates with clean tap water before applying **MasterSeal P 385**. The support must be damp but free of standing water. The residual concrete moisture content of the substrate must not exceed 8% (check with e.g. CM device). Try to keep the temperature uniform during application and hardening.

(b) Mixing

MasterSeal P 385 is supplied in three separate components, in the correct quantities, ready for use.

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Mixing ratio (by weight):

Part A (Base):	1
Part B (Hardener):	1
Part C (Filler):	3.5

Pour Part B into Part A, ensuring to completely empty the pack of Part B, and mix with a slow speed drill and paddle (maximum 400 rpm) until a homogeneous mixture is obtained.

Add Part C (filler) and continue mixing until obtaining a homogeneous product without lumps. 10 – 20 % water can be added to the

MasterSeal P 385 mix to obtain the required fluidity for roller application.

Avoid the inclusion of air. Part mixes are strictly forbidden.

(c) Application

- As a primer: Apply **MasterSeal P 385** by brush, roller or spray.
- As levelling coat: Apply a scratch coat of **MasterSeal P 385** by trowel (max. 1 mm per coat).

Apply the material in two coats at an interval of 16-24 hours one from the other. Allow

MasterSeal P 385 to cure for a minimum of 48 hours before applying any other coating. In case overcoating takes place after a longer waiting time, grind the primer surface before applying a coating.

Spray application:

Air Spray

Nozzle diameter	2.5 mm
Nozzle pressure	3 - 4 bar
Working pressure	2 - 3 bar

Airless spray

Nozzle diameter	0.026 – 0.030 inch
Spray angle	50 - 80 degrees
Nozzle pressure	200 - 250 bar

Attention!

MasterSeal P 385 is abrasive and should hence only be used with airless membrane pumps.

FINISHING AND CLEANING

Tools can be cleaned with water while still wet. Once the material has cured, it can only be removed mechanically.

COVERAGE

As a primer:	approx. 0.5 to 1.0 kg/m ²
As levelling coat:	approx. 1.0 to 2.0 kg/m ²

Do not exceed the maximum allowed consumption in one layer.

These consumptions are theoretical and can vary according to the absorption and roughness of the substrate. It is essential to carry out representative trials on site to evaluate the exact consumption.

WORKING TIME

Approx. 60 minutes in 23°C ambient and substrate temperature.

STORAGE

Store in cool and dry warehouse conditions.

SHELF LIFE

12 months in unopened original packaging, if stored at above mentioned storage conditions.

WATCH POINTS

- Do not apply on substrates at temperatures below +10°C or above +30°C and/or with relative humidity superior to 85%.
- Do not apply in case of risk of immediate rain.
- After application, avoid contact with water during the first 24 hours.
- Avoid the application in direct sunlight, strong wind or with risk of freezing conditions.
- Do not add sand, solvent or other substances that can affect the properties of the material.
- Do not apply directly onto dry absorbent concrete.
- Homogenize Part A prior to mixing to ensure final properties of the product.

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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 products.

PRODUCT DATA*

Property	Standard	Data	Unit
Density of mixed material	EN ISO 2811-1	approx. 1.6	g/cm ³
Application temperature (substrate and material)		from +10 to +30	°C
Relative humidity during hardening		85	%
Pot life		approx. 60	minutes
Overcoating time with resin based coatings @ 20°C and 65% rel. humidity		min. 48	hours
Service temperature		-20 to +80	°C
Adhesion to dry concrete after 28 days	EN 1542	> 2.5	N/mm ²
Adhesion to wet concrete after 28 days	EN 13578	> 2.5	N/mm ²
Capillary water absorption	EN 1062-3	< 0.1	kg/m ² h ^{0.5}
Water vapour permeability S _D	EN ISO 7783-2	approx. 7	m
Reaction to fire	EN 13501-1	B _{fl} - s1	-

**Note: Hardening times are measured at 21°C ± 2°C and 60% ± 10% relative humidity. Higher temperatures and/or higher R.H. can shorten these times, and vice versa. Technical data shown are statistical results and do not correspond to guaranteed minima. Tolerances are those described in appropriate performance.*

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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 ISO 45001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.