

# MasterSeal<sup>®</sup> 550

Acrylic reinforced cementitious, flexible waterproofing coating

## DESCRIPTION

**MasterSeal 550** is a two component acrylic modified cementitious coating applied by brush, roller or trowel to waterproof and resurface concrete, masonry, and most other construction materials.

**MasterSeal 550** provides an effective barrier to waterborne salts and atmospheric gases. Fluid applied, **MasterSeal 550** provides a hard wearing, seamless, waterproof membrane for roofs and foundation protection.

## RECOMMENDED USES

**MasterSeal 550** is ideal:

- To reface and even out variations in concrete surfaces
- As a waterproof lining for water retaining structures
- For coating seawater channels
- Sealing and coating tie bar holes to ensure water tightness
- To provide foundation protection
- As a waterproof coating for wet areas and sunken slabs.
- As a backing to marble and granite to prevent water ingress and thus alleviate surface staining
- To provide protection to concrete surfaces from carbonation and chloride attack

## FEATURES AND BENEFITS

- **Protects against carbonation** - A 1mm coating provides anti carbonation cover equivalent to over 80cm of concrete
- **Waterproof** – Suitable for internal and external waterproofing
- **Excellent adhesion** - Bonds to porous and non-porous surfaces
- **Flexible** – Copes with the thermal movement of concrete structures
- **Suitable for contact with potable water** – Can be used for lining concrete water tanks
- **Vapour permeable** - Whilst repelling water, allows concrete to breathe thus preventing osmosis
- **Compatible with moist surfaces** - Can be applied to 24 hour-old concrete thereby giving immediate protection

## PROPERTIES

Density	1940kg/m <sup>3</sup>
Initial surface	>95% reduction against control
Toxicity	Nontoxic – suitable for use in contact with potable water
Chloride ion diffusivity:	Not measurable after 24 months of testing
Elongation	>5% unbonded
Moisture vapour transmission (equivalent air layer thickness)	SD < 1.5m (839µm dft)
VOC content	0.5 g/L (HK prod code P10-17)
Water penetration (DIN 1048)	: 7 bars – no leakage (at 2mm DFT)

## STANDARDS

BS 1881 Part 208: 1996 - I.S.A.T.

WRAS - "Suitable for use in contact with potable water" - BS 6920: 2000

BS 476: Part 6: 1989 - Fire tests on building material: and structures - Method of test for fire propagation for products.

DIN 1048 Water Penetration Test

## APPLICATION

### Surface preparation

Correct substrate preparation is critical for optimum performance. Surfaces should be structurally sound direct tensile strength of more than 1.5MPa via a pull off tester with a load rate of 100N/s), clean, and free from laitance, loose particles, oil and grease, old coatings, curing compounds or any other contaminants. Mechanical wire brushing may be appropriate for small areas.

Prior to priming use **MasterEmaco<sup>®</sup>** repair mortars to achieve a smooth and level surface by filling holes and irregularities

### Mixing

**MasterSeal 550** is supplied in premeasured units and should be mixed on site utilising clean containers. Slowly add the powder to the liquid and



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mix, using a slow speed (300rpm) drill fitted with a suitable paddle. **MIX and USE**; do not mix more material than can be used in one hour.

Do not apply to dry concrete.

Saturate concrete surfaces with clean water and apply whilst still damp (saturated surface dry), using a short, stiff bristle brush or roller. Trowel application can be undertaken as necessary.

For heavy 6-10mm depressions, honeycombs etc. use less gauging liquid and mix to the desired consistency. Where more than one coat is found necessary to achieve the desired thickness, apply the second or subsequent coats after the previous coat has dried.

It is recommended, for general resurfacing, that each coat should be a minimum of 1mm thick.

Spray application is recommended for large areas, details of suitable equipment can be provided by BASF's Technical Service Dept.

## ESTIMATING DATA

Coverage 1.94 kg / m<sup>2</sup> at 1 mm thickness.

Recommended thickness 2mm DFT

## PACKAGING

MasterSeal 550 is available in 20kg double pack.

Consisting of

15 Kg powder part A

5 Kg liquid part B

Available in two standard colours: white and grey.

## SHELF LIFE

MasterSeal 550 can be kept for 6 months in original unopened packing when stored indoors. Do not store in direct sunlight and avoid allowing the material to freeze which will render the material unusable.

## PRECAUTIONS

For detailed Environmental, Health and Safety information, please consult and follow all instructions on the product Material Safety Data Sheet. Contact your local BASF office for the latest version.

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