

MasterSeal® 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 concrete, masonry.

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

RECOMMENDED USES

MasterSeal 550 is ideal:

- 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.
- 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 slight 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	1.95 ± 0.15
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)	5 bar – no leakage

STANDARDS

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

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

BS 476:Part6:1989- 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®** 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 utilizing clean containers. Slowly add the powder to the liquid and 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.

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

ESTIMATING DATA

The coverage rate for each layer will be strongly influenced by the roughness of the substrate.

1.94 kg / m² at 1 mm thickness.

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 9 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

It is highly recommended to use necessary PPE (Gloves, mask etc.) during installation of the product. In case of Incidents of direct inhalation, causing dizziness/giddiness, loss of consciousness, contact with eyes etc, seek immediate medical advice. The requirements may vary depending on the application areas. Please ensure to have proper ventilation while working in confined areas. Contact Master Builders Solutions representative in case you need further details or refer to the material safety datasheet of the product to know more.

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