

# MasterSeal<sup>®</sup> 551

**Elastomeric acrylic reinforced cementitious, waterproofing coating for concrete and masonry**

## DESCRIPTION

**MasterSeal 551** is an elastomeric flexible, two component acrylic modified cementitious coating applied by brush, roller or trowel to waterproof concrete, masonry.

When cured, a 2mm thick **MasterSeal 551** membrane shall accommodate movements up to 0.5mm, or up to 1.2mm when reinforced with 100% virgin polypropylene woven fabric.

## RECOMMENDED USES

**MasterSeal 551** is ideal:

- Waterproofing of Roofs, Decks, Balcony, etc.
- Water-retaining structures subjected to slight movements
- Basement-waterproofing
- To protect concrete from water, carbonation and de-icing salts.

## 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
- **Robust** – suitable for occasional foot traffic

## PROPERTIES

Density	1.95 ± 0.15
Mix ratio (Powder to liquid)	3:1 by weight
Water penetration Din 1048	1.5 Bar no leakage
Potlife @ 25°C	2 hours
@ 40°C	30 minutes
Recoatable:	8-12 hours
Elongation	>42% (air) >31% (under water)

Tensile strength	0.8 Mpa ± 5 %
VOC content (HK prod code P10-17)	0.5 g/L

## STANDARDS

BS 1881Part 208:1996- I.S.A.T.  
 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 551** is supplied in premeasured units and should be mixed on site utilising 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.

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 Master Builders Solutions's Technical Service Dept.

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## ESTIMATING DATA

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

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

3.6 kg / m<sup>2</sup> at 2 mm thickness.

## PACKAGING

**MasterSeal 551** is available in 20kg pack consisting of:

5 Kg liquid Part A

15 Kg powder Part B

## SHELF LIFE

**MasterSeal 551** 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

Please refer the Material Safety Data Sheet for handling and storage of this product.

**Masterseal 551/06/0419**

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