

# MasterSeal<sup>®</sup> 541

Acrylic reinforced, cementitious, flexible waterproof coating

## DESCRIPTION OF PRODUCT

**MasterSeal 541** is a two-component, acrylic modified, cementitious coating that requires only on-site mixing to form the ideal product to waterproof and re-surface concrete, masonry, and most other construction materials.

Simply applied by stiff brush, roller, trowel or spray, it forms a waterproof, flexible coating.

**MasterSeal 541** provides an effective barrier to waterborne salts and atmospheric gases to prevent carbonation.

Fluid applied, **MasterSeal 541** prevents the infiltration of water.

can be applied to 24 hour-old concrete, thereby giving immediate protection

## PACKAGING

**MasterSeal 541** is available in 20kg double pack (15kg powder + 5kg liquid).

## COLOURS

**MasterSeal 541** is available in grey and off white.

## COMPOSITION

**MasterSeal 541** is composed of specially selected cements, silica sand and reactive fillers, supplied in powder form together with a liquid component of blended acrylic copolymers and wetting agents.

## TYPICAL APPLICATIONS

- To reface and even out variations in concrete surfaces
- As a waterproof lining for water retaining structures like water tanks, pools and reservoirs.
- For coating seawater channels
- Sealing and coating tie bar holes to ensure water tightness
- For waterproofing and protection against brackish water
- To provide foundation protection
- 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
- For use on pedestrian walkways in marine areas

## ADVANTAGES

- Excellent adhesion – bonds to porous and non-porous surfaces
- Slight flexibility
- Suitable for light pedestrian traffic
- Breathable – whilst repelling water, allows substrate to breathe
- Slurry or trowellable consistency; application is still possible by spray.
- Unlike conventional coatings, which require a 7-28 day cure of concrete, **MasterSeal 541**

## TYPICAL PROPERTIES

Density:	1800kg/m <sup>3</sup>
Toxicity:	Non-toxic
Positive Pressure:	1.5 Bar
Negative Pressure:	0.5 Bar
Elongation ASTM C307:	>5%

## CHEMICAL RESISTANCE

**MasterSeal 541** has outstanding wear and weather resistance.

## STANDARDS

Approved by National Organization for Potable Water and Sanitary Drainage. Suitable for use in contact with potable and sanitary water.

## APPLICATION PROCEDURE

### SURFACE PREPARATION:

As like all coating systems, surface preparation is of prime importance. Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion.

Laitance should preferably be removed by light sweep blasting or hydro jetting. Mechanical wire brushing may be appropriate for small areas.

## MasterSeal<sup>®</sup> 541

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Spalled concrete should be cut back to sound concrete and made good with a suitable cementitious repair mortar, such as **MasterEmaco S 488**. Conventional concrete curing compounds should be removed before application.

The exception to this is when **MasterKure 101** has been used. Roofing tiles should be firmly bedded and grouted before application.

### MIXING:

**MasterSeal 541** is supplied in pre-measured units and should be mixed on site utilising clean containers. Slowly add the powder to the liquid and mix, using a slow speed drill fitted with a suitable paddle. MIX AND USE. Do not mix more material than can be used within one hour.

NOTE: Although **MasterSeal 541** is supplied in pre-measured packs, part packs can be used by mixing ratio 2 volumes of powder to 1 volume of liquid or 3 by weight of powder to 1 by weight of liquid. Mix thoroughly, and keep mixed during application. DO NOT RE-TEMPER WITH WATER.

Saturate concrete surfaces with clean water whilst still visibly damp, but free of standing water; apply the first coat using short, stiff bristle brush or roller. Allow at least overnight to cure before applying the second coat. Dampen the first coat and remove excess water. Apply the second coat as above. Trowel application can be undertaken as necessary. For heavy 6-10mm depressions, honeycombs, etc. use less gauging liquid and mix to the desired consistency.

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

### COVERAGE

- 0.8-1 kg/m<sup>2</sup>/coat
- Two coats are normally recommended
- Apply the second coat at right angles to the first coat

### STORAGE

Store out of direct sunlight, clear of the ground, on pallets protected from rainfall. Avoid excessive compaction.

Failure to comply with the recommended storage conditions may result in premature deterioration of

the product or packaging. For specific storage advice, consult Master Builders Solutions's Technical Services Department.

### SHELF LIFE

Up to 12 months if stored according to manufacturer's instructions in unopened containers.

### SAFETY PRECAUTIONS

As with all chemical products, care should be taken, during use and storage, to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention.

### NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

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## QUALITY STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world- wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

\* Properties listed are based on laboratory controlled tests.

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